

Single Digit Representations of Numbers From 7501 to 10000

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Abstract

In previous work [8], the author wrote natural numbers from 1 to 1000 in terms of each digits. This paper bring the numbers 7501 to 10000 in terms of each digit. The work is divided in four parts giving total up to 10000 natural numbers written in term of each digit. For other parts refer [9, 10, 11]. The extension to 20000 shall be given later in another four parts.

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1 Crazy Representations of Natural Numbers

In this section, we shall write different ways of writing natural numbers. These representations are divided in four different types.

1.1 First Type: Increasing and Decreasing

In 2014, author [1] wrote natural numbers in increasing and decreasing orders of 1 to 9 and 9 to 1. See examples below:

$$\mathbf{100} := 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8 \times 9 = 9 \times 8 + 7 + 6 + 5 + 4 + 3 + 2 + 1$$

$$\mathbf{101} := 1 + 2 + 34 + 5 + 6 \times 7 + 8 + 9 = 9 \times 8 + 7 + 6 + 5 + 4 + 3 \times 2 + 1$$

$$\mathbf{102} := 12 + 3 \times 4 \times 5 + 6 + 7 + 8 + 9 = 9 + 8 + 7 + 6 + 5 + 4^3 + 2 + 1$$

$$\mathbf{103} := 1 \times 2 \times 34 + 5 + 6 + 7 + 8 + 9 = 9 + 8 + 7 \times 6 + 5 \times 4 + 3 + 21$$

$$\mathbf{104} := 1 + 23 + 4 + 5 + 6 + 7 \times 8 + 9 = 9 + 8 + 7 + 65 + 4 \times 3 + 2 + 1$$

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$$\begin{aligned}
\mathbf{105} &:= 1 + 2 \times 3 \times 4 + 56 + 7 + 8 + 9 &= 9 + 8 \times 7 + 6 \times 5 + 4 + 3 + 2 + 1 \\
\mathbf{106} &:= 12 + 3 + 4 \times 5 + 6 + 7 \times 8 + 9 &= 9 + 8 \times 7 + 6 \times 5 + 4 + 3 \times 2 + 1 \\
\mathbf{107} &:= 1 \times 23 + 4 + 56 + 7 + 8 + 9 &= 9 + 8 + 76 + 5 + 4 + 3 + 2 \times 1 \\
\mathbf{108} &:= 1 + 2 + 3 + 4 + 5 + 6 + 78 + 9 &= 9 + 8 + 76 + 5 + 4 + 3 + 2 + 1.
\end{aligned}$$

See below more examples,

$$\begin{aligned}
\mathbf{999} &:= 12 \times 3 \times (4 + 5) + (67 + 8) \times 9 &= 9 + 8 + 7 + 654 + 321. \\
\mathbf{2535} &:= 1 + 2345 + (6 + 7 + 8) \times 9 &= 9 + 87 \times (6 + 5 \times 4 + 3) + 2 + 1. \\
\mathbf{2607} &:= 123 \times 4 \times 5 + 6 + (7 + 8) \times 9 &= 987 + 6 \times 54 \times (3 + 2) \times 1. \\
\mathbf{10958} &:= 12 \times 3 + \sqrt{4} + 5! \times (67 + 8 \times \sqrt{9}) &= (9 + 8 \times 7 \times 65 + 4) \times 3 - 2 + 1. \\
\mathbf{11807} &:= 1 \times 234 \times (5 + 6 \times 7) + 89 &= -9 + 8 + 7 \times (6 + 5) \times (4 \times 3)^2 \times 1.
\end{aligned}$$

We observe that the number 10958 is the only number among 0 to 11111, where we need extra operations, such as **square-root**, **factorial**, etc. to write in increasing case. For more details refer author's web-site link [5]. Extension of numbers from 11112 to 30000 refer [2, 3, 4].

1.2 Second Type: Flexible Power Representations

Let us consider two numbers, 1 and 2. Using the idea of power and the operations of *addition* and *subtraction*, we can write following 3 numbers in terms of 1 and 2, as $1 = -1^2 + 2^1$, $3 = 1^2 + 2^1$ and $5 = 1^1 + 2^2$. In this situation, we observe that *bases* and *exponents* are of same digits. Permutations of exponent values helps in bringing different numbers. In case of repeated values, for example, $3 = 1^2 + 2^1 = -1^1 + 2^2$, only possibilities is considered. There is only one number having single digit, i.e., $1 = 1^1$. For simplicity, let us represent the above procedure as $(1, 2)^{(1, 2)}$, resulting in three possible values. The above procedure is with two digits. Instead having two digits, we can work with two letters, such as,

$$(a, b)^{(a, b)}, \dots (a, b, c, d, e, f, g, h, i)^{(a, b, c, d, e, f, g, h, i)},$$

where $a, b, c, d, e, f, g, h, i \in \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, all distinct.

1.2.1 Unequal String Lengths

$$\begin{array}{lll}
\mathbf{100} := 2^6 + 6^2 & \mathbf{107} := -1^2 + 2^7 - 3^3 + 7^1 & \mathbf{114} := -2^2 + 3^5 - 5^3 \\
\mathbf{101} := 1^1 + 2^6 + 6^2 & \mathbf{108} := 1^7 + 2^6 + 6^2 + 7^1 & \mathbf{115} := 1^5 - 2^1 - 3^2 + 5^3 \\
\mathbf{102} := -2^5 + 3^2 + 5^3 & \mathbf{109} := 1^2 + 2^7 - 3^3 + 7^1 & \mathbf{116} := 2^2 + 3^5 - 4^4 + 5^3 \\
\mathbf{103} := 1^1 - 2^5 + 3^2 + 5^3 & \mathbf{110} := 1^9 + 2^6 + 6^2 + 9^1 & \mathbf{117} := -1^1 + 3^5 - 5^3 \\
\mathbf{104} := -1^1 + 2^3 + 3^4 + 4^2 & \mathbf{111} := -1^3 + 2^7 - 3^2 - 7^1 & \mathbf{118} := 3^5 - 5^3 \\
\mathbf{105} := 2^3 + 3^4 + 4^2 & \mathbf{112} := 3^5 - 4^4 + 5^3 & \mathbf{119} := 1^1 + 3^5 - 5^3. \\
\mathbf{106} := 2^7 + 3^3 - 7^2 & \mathbf{113} := -1^5 - 2^1 - 3^2 + 5^3 &
\end{array}$$

See more examples,

$$638 := -1^5 - 2^1 - 4^2 + 5^4$$

$$666 := -2^5 + 3^2 + 4^3 + 5^4$$

$$786 := -1^4 + 3^6 + 4^3 - 6^1$$

$$1933 := -1^3 - 2^2 + 3^7 - 4^4 + 7^1$$

$$1934 := 2^9 + 3^6 - 6^2 + 9^3$$

$$3098 := -3^3 + 5^5$$

$$2280 := -1^1 - 2^6 + 4^5 + 5^2 + 6^4$$

$$6922 := -3^6 - 5^3 + 6^5$$

$$9711 := 1^3 + 2^4 + 3^8 + 4^2 + 5^5 - 8^1$$

$$9777 := 1^9 + 2^1 + 4^7 - 7^2 - 9^4$$

$$11110 := 1^1 + 2^2 + 3^9 - 5^6 + 6^5 - 9^3$$

$$11111 := -1^1 + 2^7 + 3^8 - 4^2 + 7^3 + 8^4.$$

The whole work is from 1 to 11111. For details refer [6].

1.2.2 Equal String Lengths

Based on second type still we can write natural numbers in a sequential way with uniform representations. Instead working with unequal strings as of previous section, here we worked with equal string using the digits 0 to 9, i.e., using all the 10 digits, {0,1,2,3,4,5,6,7,8,9}. The results obtained are symmetric, i.e., writing in 0 to 9 or 9 to 0, the resulting number is same. See some examples below,

$$201 := 0^3 + 1^9 + 2^4 + 3^7 - 4^8 + 5^1 + 6^6 + 7^5 + 8^2 + 9^0$$

$$202 := 0^0 + 1^9 + 2^6 + 3^8 - 4^7 + 5^5 + 6^3 + 7^2 + 8^1 + 9^4$$

$$203 := 0^3 - 1^9 + 2^4 + 3^7 - 4^8 + 5^0 + 6^6 + 7^5 + 8^2 + 9^1$$

$$204 := 0^8 + 1^9 + 2^5 + 3^7 - 4^6 + 5^1 + 6^4 + 7^2 + 8^0 + 9^3$$

$$205 := 0^3 + 1^9 + 2^4 + 3^7 - 4^8 + 5^0 + 6^6 + 7^5 + 8^2 + 9^1$$

$$206 := 0^7 - 1^9 - 2^5 - 3^8 + 4^6 + 5^1 + 6^3 + 7^4 + 8^0 + 9^2$$

$$207 := 0^8 + 1^9 + 2^5 + 3^7 - 4^6 + 5^0 + 6^4 + 7^2 + 8^1 + 9^3$$

$$208 := 0^7 + 1^9 - 2^5 - 3^8 + 4^6 + 5^1 + 6^3 + 7^4 + 8^0 + 9^2$$

$$209 := 0^7 - 1^9 - 2^5 - 3^8 + 4^6 + 5^0 + 6^3 + 7^4 + 8^1 + 9^2$$

$$210 := 0^5 - 1^7 - 2^8 - 3^9 + 4^1 + 5^6 + 6^0 + 7^3 + 8^4 + 9^2$$

$$211 := 0^7 + 1^9 - 2^5 - 3^8 + 4^6 + 5^0 + 6^3 + 7^4 + 8^1 + 9^2$$

$$212 := 0^5 + 1^7 - 2^8 - 3^9 + 4^1 + 5^6 + 6^0 + 7^3 + 8^4 + 9^2$$

$$213 := 0^5 + 1^8 - 2^7 - 3^9 + 4^1 + 5^6 + 6^3 + 7^0 + 8^4 + 9^2$$

$$214 := 0^5 + 1^7 - 2^8 - 3^9 + 4^0 + 5^6 + 6^1 + 7^3 + 8^4 + 9^2$$

$$215 := 0^5 + 1^9 + 2^8 + 3^7 - 4^6 + 5^0 + 6^4 + 7^2 + 8^3 + 9^1$$

$$216 := 0^1 - 1^7 + 2^8 - 3^9 + 4^5 + 5^6 + 6^0 + 7^4 + 8^3 + 9^2$$

$$217 := 0^7 - 1^9 + 2^5 - 3^8 + 4^6 + 5^2 + 6^3 + 7^4 + 8^1 + 9^0$$

$$218 := 0^1 + 1^7 + 2^8 - 3^9 + 4^5 + 5^6 + 6^0 + 7^4 + 8^3 + 9^2$$

$$219 := 0^7 + 1^9 + 2^5 - 3^8 + 4^6 + 5^2 + 6^3 + 7^4 + 8^1 + 9^0$$

$$220 := 0^7 + 1^9 + 2^5 - 3^8 + 4^6 + 5^2 + 6^3 + 7^4 + 8^0 + 9^1.$$

Below are more examples,

$$11080 := 0^8 + 1^9 + 2^7 + 3^6 + 4^2 + 5^5 + 6^0 + 7^1 + 8^3 + 9^4$$

$$11081 := 0^8 - 1^9 + 2^6 + 3^7 + 4^4 + 5^1 + 6^5 + 7^0 + 8^2 + 9^3$$

$$11082 := 0^8 + 1^9 + 2^6 + 3^7 + 4^1 + 5^4 + 6^5 + 7^3 + 8^0 + 9^2$$

$$11083 := 0^8 + 1^9 + 2^6 + 3^7 + 4^4 + 5^1 + 6^5 + 7^0 + 8^2 + 9^3$$

$$11084 := 0^7 + 1^9 + 2^8 + 3^6 + 4^1 + 5^5 + 6^0 + 7^3 + 8^2 + 9^4$$

$$11085 := 0^8 + 1^9 + 2^6 + 3^7 + 4^4 + 5^0 + 6^5 + 7^1 + 8^2 + 9^3$$

$$11086 := 0^7 + 1^9 + 2^8 + 3^6 + 4^0 + 5^5 + 6^1 + 7^3 + 8^2 + 9^4$$

$$11087 := 0^6 + 1^9 - 2^8 + 3^7 + 4^2 + 5^4 + 6^5 + 7^0 + 8^1 + 9^3.$$

The whole work is from 1 to 11111. For details refer [7].

Analysing the procedures given in sections 1.1 and 1.2, we observe that in section 1.1, all the 9 digits are used in increasing and decreasing ways to bring natural numbers, where each digit appears only once. In this case, the operations

used are, **addition, subtraction, multiplication, division, potentiation, factorial** and **square-root**. The section 1.2 works with representations of natural numbers written in a way that we use each digit twice, where **bases** and **exponents** are of same digits with different permutations. Subsection 1.2.1 choose the digits from 1 to 9, according to necessity, while subsection 1.2.2 works with all the 10 digits, i.e., 0 to 9, along with the operations of **addition** and **subtraction**.

1.3 Third Way: Single Digit Representations

In [1], author wrote natural numbers 1 to 1000 using single digit in each case. For example,

$$717 := (1+1)^{11} - 11^{(1+1+1)}$$

$$:= 22^2 + 222 + 22/2$$

$$:= 3^{(3+3)} - 3 - 3 \times 3$$

$$:= 4 \times (4 \times 44 + 4) - 4 + 4/4$$

$$:= (55 \times (55 + 5 + 5) + 5 + 5)/5$$

$$:= (6 \times 6/(6+6))^6 - 6 - 6$$

$$:= 777 - 7 \times 7 - 77/7$$

$$:= 8 \times 88 + (88 + 8 + 8)/8$$

$$:= 9 \times 9 \times 9 - (99 + 9)/9.$$

$$995 := (11-1)^{(1+1+1)} - (11-1)/(1+1)$$

$$:= 22 + 2 \times (22^2 + 2) + 2/2$$

$$:= 3 \times 333 - 3 - 3/3$$

$$:= 4 \times (4^4 - 4 - 4) + 4 - 4/4$$

$$:= 5 \times (5+5) \times (5 \times 5 - 5) - 5$$

$$:= 666 + 6 \times 66 - 66 - 6/6$$

$$:= (7+7) \times (77-7) + 7 + 7 + 7/7$$

$$:= 888 + 88 + 8 + 88/8$$

$$:= 999 - (9+9+9+9)/9.$$

$$786 := ((1+1+1)^{(1+1+1)} + 1)^{(1+1)} + 1 + 1$$

$$:= (22 + 2 + 2 + 2)^2 + 2$$

$$:= 33 \times (3^3 - 3) - 3 - 3$$

$$:= 4 \times (4 \times (44 + 4) + 4) + (4 + 4)/4$$

$$:= 5 + (5^5 - 5/5)/(5 - 5/5)$$

$$:= 66 \times (6+6) - 6$$

$$:= 777 + 7 + (7+7)/7$$

$$:= 8 \times (88 + 8) + 8 + (88 - 8)/8$$

$$:= 9 \times 99 - 99 - 9 + (9+9+9)/9$$

$$1000 := (11-1)^{(1+1+1)}$$

$$:= 2 \times (22^2 + 2^{(2+2)})$$

$$:= (3 \times 3 + 3/3)^3$$

$$:= 4 \times (4^4 - 4) - 4 - 4$$

$$:= 5 \times (5+5) \times (5 \times 5 - 5)$$

$$:= ((66 - 6)/6)^{(6 \times 6/(6+6))}$$

$$:= (7+7+7-7/7) \times (7 \times 7 + 7/7)$$

$$:= 888 + 88 + 8 + 8 + 8$$

$$:= 999 + 9/9.$$

Values are calculated up to 1.000.000 (.txt file), but the work is written only from 0 to 1000. For details, refer Taneja [8].

1.4 Forth Way: Single Letter Representations

We observe that the numbers written in previous section 1.3 are in terms of each digit, not necessarily symmetric. But there are numbers, that can be written in a symmetric way, see examples below:

$$\bullet 5 = \frac{11-1}{1+1} = \frac{22-2}{2+2} = \frac{33-3}{3+3} = \frac{44-4}{4+4} = \frac{55-5}{5+5} = \frac{66-6}{6+6} = \frac{77-7}{7+7} = \frac{88-8}{8+8} = \frac{99-9}{9+9}.$$

$$\bullet 6 = \frac{11+1}{1+1} = \frac{22+2}{2+2} = \frac{33+3}{3+3} = \frac{44+4}{4+4} = \frac{55+5}{5+5} = \frac{66+6}{6+6} = \frac{77+7}{7+7} = \frac{88+8}{8+8} = \frac{99+9}{9+9}.$$

$$\bullet 55 = \frac{111-1}{1+1} = \frac{222-2}{2+2} = \frac{333-3}{3+3} = \frac{444-4}{4+4} = \frac{555-5}{5+5} = \frac{666-6}{6+6} = \frac{777-7}{7+7} = \frac{888-8}{8+8} = \frac{999-9}{9+9}.$$

$$\bullet 56 = \frac{111+1}{1+1} = \frac{222+2}{2+2} = \frac{333+3}{3+3} = \frac{444+4}{4+4} = \frac{555+5}{5+5} = \frac{666+6}{6+6} = \frac{777+7}{7+7} = \frac{888+8}{8+8} = \frac{999+9}{9+9}.$$

Motivated by this idea, instead working for each digit separately, we can work with a **single letter "a"**, for example,

$$\begin{aligned} 5 &:= \frac{aa-a}{a+a} & 1991 &:= \frac{\frac{aaaaaa}{aaa} \times (a+a) - aa}{\frac{aaaaa-a}{aa} \times (a+a)} \\ 6 &:= \frac{aa+a}{a+a} & 2020 &:= \frac{\frac{aaaa-a}{aa} \times aa}{\frac{a+a}{aaa} \times aa \times aa} \\ 55 &:= \frac{aaa-a}{a+a} & 2035 &:= \frac{\frac{aaaa-a}{a+a+a} \times aa}{\frac{a+a}{aaa} \times aa \times aa} \\ 56 &:= \frac{aaa+a}{a+a} & 4477 &:= \frac{\frac{aaaa-a}{a+a+a} \times aa \times aa}{\frac{a \times a}{(aaaaa-aaaa-a-a)}} \\ 561 &:= \frac{aaaa+aa}{a+a} & 4999 &:= \frac{(aaaaa-aaaa-a-a)}{(a+a)} \\ 666 &:= \frac{aaa \times (aa+a)}{(a+a) \times a} & 5000 &:= \frac{(aaaaa-aaaa)}{(a+a)} \\ 786 &:= \frac{(\frac{(aa+a) \times aa}{a} - a) \times (aa+a)}{(a+a) \times a} & 122988 &:= \frac{(aaaa-a-a-a) \times aaa}{a \times a} \\ 925 &:= \frac{aaaaa-aa}{aa+a} \\ 1089 &:= \frac{aaaa-aa-aa}{a} \end{aligned}$$

where $a \in \{1, 2, 3, 4, 5, 6, 7, 8, 9\}$, and $aa = 10 \times a + a$, $aaa = 10^2 \times a + 10 \times a + a$, etc.

The full work is from 1 to 11111 numbers, written in two different ways. One running type [15] and another in fraction-type way [16]. For previous work refer [12, 13]. The summary of author's work on recreation of numbers in different situations refer [17].

2 Single Digit Representations From 1 to 10000

The whole work brings numbers 1 to 10000 written in terms of single digits. Since, it is not possible to put all the numbers in single work, we divided it in six parts as given below:

- Part I: From 0001 to 2500 [9];
- Part II: From 2501 to 5000 [10];
- Part III: From 5001 to 7500 [11];
- Part IV: From 7501 to 10000.

This paper brings forth part giving **single digit representations** of natural numbers from 7501 to 10000. For other parts refer [9, 10, 11]. The extension to 20000 shall be given later in another four parts.

Remark 2.1. *Due to high quantity of numbers there are so many extra brackets. After simplifications, these unnecessary brackets can be removed easily.*

2.1 Single Digit Representation: 7501-10000

This subsection bring the first part of the whole project. Here, the numbers are represented from 7501 to 10000 in terms of different digits.

- **7501** := $1 + ((1 + 11) \times (1 + (1 + 1) \times (1 + 11))^{1+1})$
:= $(22/2 + 2) \times (((22 + 2)^2) + 2/2)$
:= $3/3 + ((3 + 3) \times ((33/3)^3 - 3 \times 3^3))$
:= $4/4 + (((4 + 4) + 4) \times (4/4 + 4)^4)$
:= $(5/5 + 5)^5 - 5 \times 55$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 66) + 6/6)$
:= $77/7 + ((7 \times (77 \times (7 + 7) - 7)) - 7)$
:= $(88 + 8 + 8)/8 \times (8 \times (8 \times 8 + 8) + 8/8)$
:= $99 + (9 \times 9 \times (9 \times 9 + 9) + ((999 + 9)/9))$
- **7505** := $((11 \times ((1 + 1)^{11} - 1)) - (1 + 1))/(1 + 1 + 1)$
:= $2 + (((2 - 22^2)/2) + (2 \times 2 \times 22)^2)$
:= $3 + (((3^3 + 3/3) + 3) \times ((3^{3+3} - 3)/3))$
:= $4 + (((4 + 4) + 4) \times (4/4 + 4)^4) + 4/4$
:= $5 + (5 \times (5 \times 5 \times (55 + 5)))$
:= $((6/6 + 6 + 6) + 6) \times (6 \times 66 - 6/6)$
:= $7 + ((7 \times (77 \times (7 + 7) - 7)) + 7/7)$
:= $((88 - 8/8)^{(8+8)/8}) - 8 \times 8$
:= $((9 + 9)/9)^9 + 999 \times (9 - (9 + 9)/9)$
- **7509** := $((11 \times (1 + 1)^{11}) - 1)/(1 + 1 + 1)$
:= $2 + (((2 \times 2 \times 22 - 2)^2) + 222/2)$
:= $3 + (((3 \times (33/3 + 3)^3) - 3^{3+3}) + 3)$
:= $4 + (((4 + 4) + 4) \times (4/4 + 4)^4) + 4/4 + 4$
:= $5 + (((5 \times (5 \times 5 \times (55 + 5))) - 5/5) + 5)$
:= $6 + (((66 + 6/6) \times 666/6) + 66)$
:= $(77 + 7)/7 + (7 \times (77 \times (7 + 7) - 7))$
:= $8 + ((88 + 8 + 8)/8 \times (8 \times (8 \times 8 + 8) + 8/8))$
:= $(9 + 9)/9 + (9 \times 9 \times 99 - ((9 + 9)/9)^9)$
- **7502** := $11 \times (((1 + 1)^{11} - (1 + 1))/(1 + 1 + 1))$
:= $(22/2)^2 \times (2^{2+2+2} - 2)$
:= $((3^3 + 3/3) + 3) \times ((3^{3+3} - 3)/3)$
:= $(4 + 4)/4 + (((4 + 4) + 4) \times (4/4 + 4)^4)$
:= $5/5 + ((5/5 + 5)^5 - 5 \times 55)$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - ((6 + 6)/6)^6)$
:= $7 + ((7 \times (77 \times (7 + 7) - 7)) - ((7 + 7)/7))$
:= $88/8 \times (8 \times 88 - (88 + 88)/8)$
:= $99/9 \times ((99/9) \times (9 \times 9 - (9/9 + 9 + 9)))$
- **7506** := $(1 + (11 \times ((1 + 1)^{11} - 1)))/(1 + 1 + 1)$
:= $(2/2 + 2) \times ((2 \times (22 + 2) + 2)^2 + 2)$
:= $3 + ((3 \times (33/3 + 3)^3) - 3^{3+3})$
:= $4 + (((4 + 4) + 4) \times (4/4 + 4)^4) + (4 + 4)/4$
:= $5 + ((5/5 + 5)^5 - 5 \times 55)$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 66) + 6)$
:= $7 + ((7 \times (77 \times (7 + 7) - 7)) + ((7 + 7)/7))$
:= $8/8 + (((88 - 8/8)^{(8+8)/8}) - 8 \times 8)$
:= $9 \times ((9999 + 9)/(99 + 9)/9)$
- **7510** := $1 + (((11 \times (1 + 1)^{11}) - 1)/(1 + 1 + 1))$
:= $22 + ((22/2 + 2) \times ((22 + 2)^2))$
:= $3 + (((3 \times (3 + 3)) + 3/3)^3) + 3 \times (3 + 3)^3$
:= $(44 - 4)/4 + (((4 + 4) + 4) \times (4/4 + 4)^4)$
:= $5 + ((5 \times (5 \times 5 \times (55 + 5))) + 5)$
:= $6 + ((66 + 6/6) \times (666 + 6)/6)$
:= $7 + (((7 \times (77 \times (7 + 7) - 7)) - 7/7) + 7)$
:= $8 + (88/8 \times (8 \times 88 - (88 + 88)/8))$
:= $(9/9 + 9) \times (((99 + 99)/9) + 9 \times 9 \times 9)$
- **7503** := $1 + (11 \times (((1 + 1)^{11} - (1 + 1))/(1 + 1 + 1)))$
:= $((2 - 22^2)/2) + (2 \times 2 \times 22)^2$
:= $(3 \times (33/3 + 3)^3) - 3^{3+3}$
:= $4 + (((4 + 4) + 4) \times (4/4 + 4)^4) - 4/4$
:= $5 + ((5 + 5)/5 \times ((5^5 - 5)/5 + 5^5))$
:= $66 + ((66 + 6/6) \times 666/6)$
:= $7 + ((7 \times (77 \times (7 + 7) - 7)) - 7/7)$
:= $8 + (((8 \times (8 \times 8 \times (8 + 8) - 88)) - 8/8) + 8)$
:= $(9 \times ((9 \times 9 \times 9 + 99 + 9) + 9)) - 999/9$
- **7507** := $1 + ((1 + (11 \times ((1 + 1)^{11} - 1)))/(1 + 1 + 1))$
:= $222/2 + ((2 \times 2 \times 22 - 2)^2)$
:= $3 \times (3 + 3)^3 + (((3 \times (3 + 3)) + 3/3)^3)$
:= $4 + (((4 + 4) + 4) \times (4/4 + 4)^4) - 4/4 + 4$
:= $((55 + 5)/5) \times ((5^5 + 5)/5) - 5$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)) - (66/6 + 6)$
:= $((77 - 7)/7) + (7 \times (77 \times (7 + 7) - 7))$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) - 88)) + (88/8))$
:= $9 \times 9 \times 99 - ((9 + 9)/9)^9$
- **7511** := $1 + (1 + (((11 \times (1 + 1)^{11}) - 1)/(1 + 1 + 1)))$
:= $(2222/2) + ((2 \times 2 \times (22 - 2))^2)$
:= $3 \times 3^{3+3} + ((3/3 + 3) \times (33/3)^3)$
:= $44/4 + (((4 + 4) + 4) \times (4/4 + 4)^4)$
:= $5 + (((5/5 + 5)^5 - 5 \times 55) + 5)$
:= $6 + (((6/6 + 6 + 6) + 6) \times (6 \times 66 - 6/6))$
:= $7 + ((7 \times (77 \times (7 + 7) - 7)) + 7)$
:= $8888/8 + 8 \times (888 - 88)$
:= $9 \times 9 \times 99 + (((9 - 9 \times 999)/(9 + 9)) - 9)$
- **7504** := $(1 + 111) \times (1 + ((1 + 1) \times (11 \times (1 + 1 + 1))))$
:= $2 + ((22/2)^2 \times (2^{2+2+2} - 2))$
:= $((3/3 + 3)^3) + 3 \times ((333 + 3)/3)$
:= $4 + (((4 + 4) + 4) \times (4/4 + 4)^4)$
:= $5 + ((5 \times (5 \times 5 \times (55 + 5))) - 5/5)$
:= $(66 + 6/6) \times (666 + 6)/6$
:= $7 + (7 \times (77 \times (7 + 7) - 7))$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) - 88)) + 8)$
:= $9 \times (9 \times 9 \times 9 - 9) + (((9 + 9)/9)^{9/9+9})$
- **7508** := $((11 \times (1 + 1)^{11}) - 1)/(1 + 1 + 1) - 1$
:= $(222 \times (2 + 2 + 2)^2) - 22^2$
:= $3 + (((3^3 + 3/3) + 3) \times ((3^{3+3} - 3)/3)) + 3$
:= $4 + (((4 + 4) + 4) \times (4/4 + 4)^4) + 4$
:= $(5 + 5)/5 \times (((5^5 - 5)/5 + 5^5) + 5)$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) - ((6 + 6)/6)^6) + 6)$
:= $77/7 + (7 \times (77 \times (7 + 7) - 7))$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) - 88)) + ((88 + 8)/8))$
:= $9/9 + (9 \times 9 \times 99 - ((9 + 9)/9)^9)$
- **7512** := $(11 \times ((1 + (1 + 1)^{11})/(1 + 1 + 1))) - 1$
:= $((22/2 + 2) \times (((22 + 2)^2) + 2)) - 2$
:= $(3 \times ((33/3 + 3)^3 + 3)) - 3^{3+3}$
:= $(4 - 4/4) \times ((4 \times (4/4 + 4)^4) + 4)$
:= $((55 + 5)/5) \times ((5^5 + 5)/5)$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)) - 6 - 6$
:= $7 + (((7 \times (77 \times (7 + 7) - 7)) + 7/7) + 7)$
:= $8 + (((8 \times (8 \times 8 \times (8 + 8) - 88)) + 8) + 8)$
:= $(9 - 9/9) \times ((999/9 + 9 \times 9 \times 9) + 99)$

- 7513 := $11 \times ((1 + (1 + 1)^{11}) / (1 + 1 + 1))$
:= $(2 \times 2 \times 22)^2 + ((22 - 22^2) / 2)$
:= $33/3 \times ((33/3)^3 - 3 \times (3 + 3)^3)$
:= $4/4 + ((4 - 4/4) \times ((4 \times (4/4 + 4)^4) + 4))$
:= $5 \times 5 + (((55 + 5) / 5) \times (5^5 - 5) / 5)$
:= $66/6 \times ((666 + (66/6)) + 6)$
:= $7 + (((7 \times (77 \times (7 + 7) - 7)) + ((7 + 7) / 7)) + 7)$
:= $8 + (((88 - 8/8)^{(8+8)/8}) - 8 \times 8)$
:= $99/9 \times (((((9 + 9) / 9)^9) + 9 \times (9 + 9)) + 9)$
- 7514 := $1 + (11 \times ((1 + (1 + 1)^{11}) / (1 + 1 + 1)))$
:= $(22/2 + 2) \times (((22 + 2)^2) + 2)$
:= $(3^3 - 3/3) \times (3 \times (3 \times 33 - 3) + 3/3)$
:= $(4 \times 4 + 4/4) \times (444 - (4 + 4) / 4)$
:= $(5 \times ((5 \times 5 \times (55 + 5)) + 5)) - 55/5$
:= $(6 - 66) / 6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6))$
:= $7 + ((7 \times (77 \times (7 + 7) - 7)) + ((77 - 7) / 7))$
:= $8 + (((88 - 8/8)^{(8+8)/8}) - 8 \times 8) + 8/8$
:= $9 \times (9 \times 9 \times 9 + 99 + 9) - (9/9 + 9 + 9)$
- 7515 := $1 + (1 + (11 \times ((1 + (1 + 1)^{11}) / (1 + 1 + 1))))$
:= $2/2 + ((22/2 + 2) \times (((22 + 2)^2) + 2))$
:= $3 \times ((3^3 \times (3 \times (3^3 + 3) + 3)) - (3 + 3))$
:= $4 + (((4 + 4) + 4) \times (4/4 + 4)^4) + 44/4$
:= $5 + (((5 \times (5 \times 5 \times (55 + 5))) + 5) + 5)$
:= $6 + (((66 + 6/6) \times 666/6) + 66) + 6$
:= $7 + ((7 \times (77 \times (7 + 7) - 7)) + (77/7))$
:= $(8 - 8/8 + 8) \times (8 \times 8 \times 8 - 88/8)$
:= $9 \times (9 \times 9 \times 9 + 99 + 9) - (9 + 9)$
- 7516 := $1 + (1 + (1 + (11 \times ((1 + (1 + 1)^{11}) / (1 + 1 + 1))))$
:= $(22 - 2)^{2/2+2} - 22^2$
:= $(3 \times ((3 + 3)^3 + 3)) + (((3 \times (3 + 3)) + 3/3)^3)$
:= $4 \times (((4 - 4/4) \times (4/4 + 4)^4) + 4)$
:= $5 + (((5/5 + 5)^5 - 5 \times 55) + 5) + 5$
:= $6 + (((66 + 6/6) \times (666 + 6) / 6) + 6)$
:= $((7 + 7) \times (7 \times 77 + 7)) - ((7 + 7) / 7)^7$
:= $8/8 + ((8 - 8/8 + 8) \times (8 \times 8 \times 8 - 88/8))$
:= $9 + (9 \times 9 \times 99 - ((9 + 9) / 9)^9)$
- 7517 := $(1 + (11 \times (1 + (1 + (1 + 1)^{11})))) / (1 + 1 + 1)$
:= $(22/2)^2 + ((2 \times 2 \times 22 - 2)^2)$
:= $3 + ((3^3 - 3/3) \times (3 \times (3 \times 33 - 3) + 3/3))$
:= $4 \times 4 + (((4 + 4) + 4) \times (4/4 + 4)^4) + 4/4$
:= $5 + (((55 + 5) / 5) \times (5^5 + 5) / 5)$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)) - 6/6 - 6$
:= $(7 \times (77 \times (7 + 7) + 7)) - 7/7 - 77$
:= $(8 \times (888 + 8 \times 8)) - (88/8 + 88)$
:= $9 + ((9 \times 9 \times 99 - ((9 + 9) / 9)^9) + 9/9)$
- 7518 := $1 + ((1 + (11 \times (1 + (1 + (1 + 1)^{11})))) / (1 + 1 + 1))$
:= $2 + ((22 - 2)^{2/2+2} - 22^2)$
:= $3^3 + (33 \times ((3 + 3)^3 + 33/3))$
:= $4 + ((4 \times 4 + 4/4) \times (444 - (4 + 4) / 4))$
:= $5 + (((55 + 5) / 5) \times (5^5 + 5) / 5) + 5/5$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)) - 6$
:= $(7 + 7) \times (7 \times 77 - ((7 + 7) / 7))$
:= $(8 - 88) / 8 + ((8 \times (888 + 8 \times 8)) - 88)$
:= $99/9 + (9 \times 9 \times 99 - ((9 + 9) / 9)^9)$
- 7519 := $11 + (((11 \times (1 + 1)^{11}) - 1) / (1 + 1 + 1)) - 1$
:= $2 + (((2 \times 2 \times 22 - 2)^2) + (22/2)^2)$
:= $((3 + 3)^3 + 3) / 3 \times ((3 \times 33 + 3/3) + 3)$
:= $((44 - 4) \times (444 - 4^4)) - 4/4$
:= $(5 \times ((5 \times 5 \times (55 + 5)) + 5)) - (5/5 + 5)$
:= $6/6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)) - 6)$
:= $7/7 + ((7 + 7) \times (7 \times 77 - ((7 + 7) / 7)))$
:= $((8/8 + 8 \times 8) + 8) \times (888/8 - 8)$
:= $9 \times 9 \times 99 - ((9 \times 999 + 9) / (9 + 9))$
- 7520 := $11 + (((11 \times (1 + 1)^{11}) - 1) / (1 + 1 + 1))$
:= $(2 \times 2 \times 22)^2 - (222 + 2)$
:= $(33 - 3/3) \times (((3^3+3) - 33) / 3) + 3$
:= $(44 - 4) \times (444 - 4^4)$
:= $(5 \times ((5 \times 5 \times (55 + 5)) + 5)) - 5$
:= $(6 + 6) / 6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)) - 6)$
:= $(7 + 7) / 7 + ((7 + 7) \times (7 \times 77 - ((7 + 7) / 7)))$
:= $(88 - 8) \times ((88 - ((8 + 8) / 8)) + 8)$
:= $9 \times 9 \times 99 + ((9 - 9 \times 999) / (9 + 9))$
- 7521 := $1 + (11 + (((11 \times (1 + 1)^{11}) - 1) / (1 + 1 + 1)))$
:= $(2 \times 2 \times 22)^2 - (222 + 2/2)$
:= $(33 \times (((3 + 3)^3 + 3 \times 3) + 3)) - 3$
:= $4/4 + ((44 - 4) \times (444 - 4^4))$
:= $(5 \times (5 - 55)) + ((5/5 + 5)^5 - 5)$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)) - 6 \times 6 / (6 + 6)$
:= $7777 - (((7 + 7) / 7)^{7+7/7})$
:= $(8 \times (8 \times (8 + 8) - 8)) + (88/8 - 8)^8$
:= $(9/9 + 99 + 9) \times (9 \times 9 - (99 + 9) / 9)$
- 7522 := $(11 \times (1 + ((1 + (1 + 1)^{11}) / (1 + 1 + 1)))) - 1 - 1$
:= $(2 \times 2 \times 22)^2 - 222$
:= $3/3 + ((33 \times (((3 + 3)^3 + 3 \times 3) + 3)) - 3)$
:= $(4 + 4) / 4 + ((44 - 4) \times (444 - 4^4))$
:= $5 + (((55 + 5) / 5) \times (5^5 + 5) / 5) + 5$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)) - (6 + 6) / 6$
:= $7 + (((7 \times (77 \times (7 + 7) - 7)) + (77/7)) + 7)$
:= $88 \times 88 - (((8 + 8) / 8) \times 888/8)$
:= $9 \times (9 \times 9 \times 9 + 99 + 9) - 99/9$
- 7523 := $(11 \times (1 + ((1 + (1 + 1)^{11}) / (1 + 1 + 1)))) - 1$
:= $2/2 + ((2 \times 2 \times 22)^2 - 222)$
:= $(33 \times (((3 + 3)^3 + 3 \times 3) + 3)) - 3/3$
:= $(44 \times (4 \times 44 - 4)) - (44 + 4/4)$
:= $(5 \times ((5 \times 5 \times (55 + 5)) + 5)) - (5 + 5) / 5$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)) - 6/6$
:= $7 + (((7 + 7) \times (7 \times 77 + 7)) - ((7 + 7) / 7)^7)$
:= $8 + ((8 - 8/8 + 8) \times (8 \times 8 \times 8 - 88/8))$
:= $9 \times (9 \times 9 \times 9 + 99 + 9) - 9/9 - 9$
- 7524 := $11 \times (1 + ((1 + (1 + 1)^{11}) / (1 + 1 + 1)))$
:= $2 + ((2 \times 2 \times 22)^2 - 222)$
:= $33 \times (((3 + 3)^3 + 3 \times 3) + 3)$
:= $44 \times (4 \times 44 - (4/4 + 4))$
:= $((55 + 5) / 5) \times (5^5 + 5) / 5$
:= $6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6)$
:= $(77 - 7/7) \times (7 \times (7 + 7) + 7/7)$
:= $8 \times (8 + 8) + ((88 - ((8 + 8) / 8))^{(8+8)/8})$
:= $9 \times (9 \times 9 \times 9 + 99 + 9) - 9$
- 7525 := $1 + (11 \times (1 + ((1 + (1 + 1)^{11}) / (1 + 1 + 1))))$
:= $((2 \times 2 \times 22 - 2/2)^2) - (2 \times 22)$
:= $3/3 + (33 \times (((3 + 3)^3 + 3 \times 3) + 3))$
:= $(44 - 4/4) \times (4 \times 44 - 4/4)$
:= $5 \times ((5 \times 5 \times (55 + 5)) + 5)$
:= $6/6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6))$
:= $77 + ((7 + 7) \times (7 \times 77 - 7))$
:= $8 + ((8 \times (888 + 8 \times 8)) - (88/8 + 88))$
:= $9 + ((9 \times 9 \times 99 - ((9 + 9) / 9)^9) + 9)$
- 7526 := $1 + (1 + (11 \times (1 + ((1 + (1 + 1)^{11}) / (1 + 1 + 1))))$
:= $2 + (((2 \times 2 \times 22)^2 - 222) + 2)$
:= $3 + ((33 \times (((3 + 3)^3 + 3 \times 3) + 3)) - 3/3)$
:= $4/4 + ((44 - 4/4) \times (4 \times 44 - 4/4))$
:= $(5 \times (5 - 55)) + (5/5 + 5)^5$
:= $(6 + 6) / 6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6))$
:= $7/7 + (((7 + 7) \times (7 \times 77 - 7)) + 77)$
:= $(8 \times (888 + 8 \times 8)) - ((8 + 8) / 8 + 88)$
:= $(9 + 9) / 9 + (9 \times (9 \times 9 \times 9 + 99 + 9) - 9)$
- 7527 := $1 + (1 + (1 + (11 \times (1 + ((1 + (1 + 1)^{11}) / (1 + 1 + 1))))))$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) - (2 \times 22))$
:= $3 + (33 \times (((3 + 3)^3 + 3 \times 3) + 3))$
:= $((4 \times 4 + 4/4) \times (444 - 4/4)) - 4$
:= $5/5 + ((5 \times (5 - 55)) + (5/5 + 5)^5)$
:= $(6 \times 6 / (6 + 6)) + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6))$
:= $(7 \times 77 \times (7 + 7)) - ((77 + 7) / 7 + 7)$
:= $(8 \times (888 + 8 \times 8)) - (8/8 + 88)$
:= $9 + ((9 \times 9 \times 99 - ((9 + 9) / 9)^9) + (99/9))$

- **7528** := $11 + ((1 + (11 \times (1 + (1 + (1 + 1)^{11})))) / (1 + 1 + 1))$
:= $2 \times ((22 \times ((22/2 + 2)^2) + 2) + 2)$
:= $3 + ((33 \times ((3 + 3)^3 + 3 \times 3) + 3)) + 3/3$
:= $4 + 44 \times (4 \times 44 - (4/4 + 4))$
:= $(5/5 + 5)^5 - ((5 - (5 + 5)/5)^5 + 5)$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)) - (6 + 6)/6)$
:= $(7 \times 77 \times (7 + 7)) - (7/7 + 7)$
:= $(8 \times (888 + 8 \times 8)) - 88$
:= $9 + (9 \times 9 \times 99 - ((9 \times 999 + 9)/(9 + 9)))$
- **7533** := $(1 + 1 + 1) \times (11 + (((11 - 1)^{1+1}/(1 + 1))^{1+1}))$
:= $22/2 + ((2 \times 2 \times 22)^2 - 222)$
:= $3 \times (3^3 \times (3 \times (3^3 + 3) + 3))$
:= $(4 - 4/4)^4 \times (((4 + 4)^4 - 4)/44)$
:= $(5/5 + 5)^5 - ((5 - (5 + 5)/5)^5)$
:= $(6^{6-6/6}) - ((6 \times 6/(6 + 6))^{6-6/6})$
:= $7/7 + ((7 + 7) \times (7 \times 77 - 7/7))$
:= $(8 \times ((888 - 8) + 8 \times 8)) - (88/8 + 8)$
:= $9 \times (9 \times 9 \times 9 + 99 + 9)$
- **7538** := $1 + (((1 + 1) \times (111 \times (1 + 11 \times (1 + 1 + 1)))) - 11)$
:= $22^2 + (((2 \times ((2 \times 22) - 2))^2) - 2)$
:= $3 + (((3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) - 3/3) + 3)$
:= $(4 - 44)/4 + (444 \times (4 \times 4 + 4/4))$
:= $5 + ((5/5 + 5)^5 - ((5 - (5 + 5)/5)^5))$
:= $(6 \times (6 \times (6 \times 6 \times 6 - 6))) - ((66 + 66)/6)$
:= $(7 \times 77 \times (7 + 7)) - (7/7 + 7)$
:= $8 + (((8 \times (888 + 8 \times 8)) - 88) + ((8 + 8)/8))$
:= $999 + (9 \times 9 \times 9 \times 9 - ((99 + 99)/9))$
- **7529** := $((11 \times ((111/(1 + 1 + 1))^{1+1}) - 1)/(1 + 1)$
:= $2 \times 22^2 + (2/2 + 2)^{2 \times (2+2)}$
:= $(3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) - (3/3 + 3)$
:= $4 + ((44 - 4/4) \times (4 \times 44 - 4/4))$
:= $5 + (((55 + 5)/5) \times (5^5 + 5 + 5)/5)$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)) - 6)/6)$
:= $((7 - 77)/7) + ((7 \times 77 \times (7 + 7)) - 7)$
:= $8/8 + ((8 \times (888 + 8 \times 8)) - 88)$
:= $9 + (((9 - 9 \times 999)/(9 + 9)) + 9 \times 9 \times 99)$
- **7534** := $(11 \times (1 + (1 + ((1 + (1 + 1)^{11})/(1 + 1 + 1)))) - 1$
:= $((2 + 2 + 2)^{2/2+2+2}) - 22^2/2$
:= $3/3 + (3 \times (3^3 \times (3 \times (3^3 + 3) + 3)))$
:= $4 + (((4/4 - 4^4) + 4) \times ((4 + 4)/4 - 4 \times (4 + 4)))$
:= $5 + (((55 + 5)/5) \times (5^5 + 5 + 5)/5)$
:= $((66 - 6)/6) + (6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)))$
:= $(7 \times 77 \times (7 + 7)) - (77 + 7)/7$
:= $8 + ((8 \times (888 + 8 \times 8)) - ((8 + 8)/8 + 88))$
:= $9/9 + 9 \times (9 \times 9 \times 9 + 99 + 9)$
- **7539** := $(11 + (11 - 1)) \times (((1 + 1 + 1) \times (11^{1+1} - 1)) - 1)$
:= $22^2 + (((2 \times ((2 \times 22) - 2))^2) - 2/2)$
:= $3 + ((3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) + 3)$
:= $4 + (((4 \times 4 + 4/4) \times (444 - 4/4)) + 4)$
:= $(5 \times (((5 \times 5 \times (55 + 5) + 5) + 5)) - 55/5)$
:= $((66 - 6/6) \times (666/6 + 6)) - 66$
:= $(7 \times 77 \times (7 + 7)) - 7$
:= $88/8 + ((8 \times (888 + 8 \times 8)) - 88)$
:= $9 + (9 \times (9 \times 9 \times 9 + 99 + 9) - ((9 + 9 + 9)/9))$
- **7530** := $(1 + (11 \times ((111/(1 + 1 + 1))^{1+1}))) / (1 + 1)$
:= $(2 \times (2 \times ((2 \times 22)^2 + 2))) - 222$
:= $(3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) - 3$
:= $((4/4 - 4^4) + 4) \times ((4 + 4)/4 - 4 \times (4 + 4))$
:= $5 + (5 \times ((5 \times 5 \times (55 + 5) + 5))$
:= $6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)))$
:= $((7 + 7)/7) \times (7 \times 7 \times 77 - (7/7 + 7))$
:= $(8 + 8)/8 + ((8 \times (888 + 8 \times 8)) - 88)$
:= $9 \times (9 \times 9 \times 9 + 99 + 9) - (9 + 9 + 9)/9$
- **7535** := $11 \times (1 + (1 + ((1 + (1 + 1)^{11})/(1 + 1 + 1))))$
:= $2 + (((2 \times 2 \times 22)^2 - 222) + 22/2)$
:= $3 + ((3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) - 3/3)$
:= $4 + ((4 \times 4 + 4/4) \times (444 - 4/4))$
:= $5 + ((5 \times ((5 \times 5 \times (55 + 5) + 5)) + 5)$
:= $66/6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)))$
:= $(7 \times 77 \times (7 + 7)) - 77/7$
:= $88/8 \times (8 \times 88 - (88/8 + 8))$
:= $(9 + 9)/9 + 9 \times (9 \times 9 \times 9 + 99 + 9)$
- **7540** := $(1 + 1) \times ((1 + 1) \times ((1 + 1 + 11) \times (1 + (1 + 11)^{1+1})))$
:= $22^2 + ((2 \times ((2 \times 22) - 2))^2)$
:= $3 + (((3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) + 3/3) + 3)$
:= $(4^4 + 4) \times ((4/4 - 4 \times 4) + 44)$
:= $(55 + 5 + 5) \times (555/5 + 5)$
:= $(6/6 - 66) \times (((6 - 666)/6) - 6)$
:= $7/7 + ((7 \times 77 \times (7 + 7)) - 7)$
:= $8 \times 888 + (888/(8 + 8)/8) - 8$
:= $9 + (9 \times (9 \times 9 \times 9 + 99 + 9) - ((9 + 9)/9))$
- **7531** := $1 + ((1 + (11 \times ((111/(1 + 1 + 1))^{1+1}))) / (1 + 1))$
:= $2 + ((2/2 + 2)^{2 \times (2+2)} + 2 \times 22^2)$
:= $3/3 + ((3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) - 3)$
:= $(4 \times 4 + 4/4) \times (444 - 4/4)$
:= $5 + ((5 \times (5 - 55)) + (5/5 + 5)^5)$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)) + 6/6)$
:= $(7 \times 77 \times (7 + 7)) - (7/7 + 7 + 7)$
:= $8 + (((8 - 8/8 + 8) \times (8 \times 8 \times 8 - 88/8)) + 8)$
:= $9 \times (9 \times 9 \times 9 + 99 + 9) - (9 + 9)/9$
- **7536** := $1 + (11 \times (1 + (1 + ((1 + (1 + 1)^{11})/(1 + 1 + 1))))$
:= $2 \times (2 \times (2 \times ((2 \times (22^2 - 2)) - 22)))$
:= $3 + (3 \times (3^3 \times (3 \times (3^3 + 3) + 3)))$
:= $4 \times ((4 \times (444 + 4 \times 4)) + 44)$
:= $5 + (((5 \times (5 - 55)) + (5/5 + 5)^5) + 5)$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)) + 6)$
:= $((7 - 77)/7) + (7 \times 77 \times (7 + 7))$
:= $8 + ((8 \times (888 + 8 \times 8)) - 88)$
:= $((9 + 9 + 9)/9) + 9 \times (9 \times 9 \times 9 + 99 + 9)$
- **7541** := $((1 + 1) \times ((1 + 1)^{11} + ((1 + 11)^{1+1+1}))) - 11$
:= $2/2 + (((2 \times ((2 \times 22) - 2))^2) + 22^2)$
:= $((3 - 3/3)^{3 \times 3}) + (33 \times ((3 + 3)^3 - 3))$
:= $4 \times 4^4 + (((4 - 4/4)^{4+4}) - 44)$
:= $5 + (((5 \times (5 - 55)) + (5/5 + 5)^5) + 5) + 5)$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)) + (66/6))$
:= $(7 + 7)/7 + ((7 \times 77 \times (7 + 7)) - 7)$
:= $(8 \times ((888 - 8) + 8 \times 8)) - 88/8$
:= $9 + (9 \times (9 \times 9 \times 9 + 99 + 9) - 9/9)$
- **7532** := $(1 + 1) \times (((1 + 1)^{1+11}) - ((1 + 1 + 1) \times (111 - 1)))$
:= $2 + ((2 \times (2 \times ((2 \times 22)^2 + 2))) - 222)$
:= $(3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) - 3/3$
:= $44 + ((4 \times 44 \times 44) - 4^4)$
:= $((5 + 5)/5)^5 + (5 \times (5 \times 5 \times (55 + 5)))$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)) + ((6 + 6)/6))$
:= $(7 + 7) \times (7 \times 77 - 7/7)$
:= $8 + (((88 - ((8 + 8)/8))^{(8+8)/8}) + 8 \times (8 + 8))$
:= $9 \times (9 \times 9 \times 9 + 99 + 9) - 9/9$
- **7537** := $((1 + 1) \times (111 \times (1 + 11 \times (1 + 1 + 1)))) - 11$
:= $((2 \times 2 \times 22 - 2/2)^2) - (2 \times 2^{2+2})$
:= $3 + ((3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) + 3/3)$
:= $(444 \times (4 \times 4 + 4/4)) - 44/4$
:= $5 \times 5 + (((55 + 5)/5) \times (5^5 + 5)/5)$
:= $6 + (((6 \times ((6 \times (6 \times 6 \times 6 - 6) - 6)) + 6/6) + 6)$
:= $(7 \times 77 \times (7 + 7)) - ((7 + 7)/7 + 7)$
:= $88 + ((88/8 - 8)^8 + 888)$
:= $9 \times (9 \times 9 - 9) + (((9 + 9)/9) + 9 \times 9)^{(9+9)/9}$
- **7542** := $(1 + 1) \times (111 + ((1 + 1 + 1) \times (11 \times 111 - 1)))$
:= $2 + (((2 \times ((2 \times 22) - 2))^2) + 22^2)$
:= $3 \times ((3^3 \times (3 \times (3^3 + 3) + 3)) + 3)$
:= $(444 \times (4 \times 4 + 4/4)) - ((4 + 4)/4 + 4)$
:= $5 + (((55 + 5)/5) \times (5^5 + 5)/5) + 5 \times 5)$
:= $6 \times 6 \times 6 + 66 \times 666/6$
:= $7 + ((7 \times 77 \times (7 + 7)) - (77/7))$
:= $(8 - 88)/8 + (8 \times ((888 - 8) + 8 \times 8))$
:= $9 + 9 \times (9 \times 9 \times 9 + 99 + 9)$

$$\begin{aligned}
\blacktriangleright 7543 &:= (1+1) \times 111 + ((1+(11^{1+1+1+1}))/ (1+1)) \\
&:= (2 \times 2 \times 22)^2 - ((22-2)^2 + 2)/2 \\
&:= 3/3 + (3 \times ((3^3 \times (3 \times (3^3 + 3) + 3) + 3)) \\
&:= (444 \times (4 \times 4 + 4/4)) - 4/4 - 4 \\
&:= 55 + (((55+5)/5) \times (5^5 - 5)/5) \\
&:= ((6/6 + 6 + 6) + 6) \times (6 \times 66 + 6/6) \\
&:= (7 \times 77 \times (7+7)) - (7+7+7)/7 \\
&:= (8 \times ((888-8) + 8 \times 8)) - (8/8 + 8) \\
&:= 9 + (9 \times (9 \times 9 \times 9 + 99 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7548 &:= (1+1) \times (111 \times (1+11 \times (1+1+1))) \\
&:= 222 \times ((2 \times 2^{2+2}) + 2) \\
&:= (3/3 + 33) \times (((3+3)^3 + 3) + 3) \\
&:= 444 \times (4 \times 4 + 4/4) \\
&:= ((55+5)/5) \times ((5^5 - 5)/5 + 5) \\
&:= (6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6 - 6 \\
&:= (7+7)/7 + (7 \times 77 \times (7+7)) \\
&:= 8 \times 888 + 888 / ((8+8)/8) \\
&:= 999 + (9 \times 9 \times 9 \times 9 - (99+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7553 &:= 111 + (((1+11^{1+1})^{1+1}) / (1+1)) \\
&:= ((2 \times 2 \times 22 - 2/2)^2) - 2^{2+2} \\
&:= 3 + ((3 \times 3 + 3/3) \times ((3^{3+3} - 3/3) + 3^3)) \\
&:= 4 + ((444 \times (4 \times 4 + 4/4)) + 4/4) \\
&:= 5 + (((55+5)/5) \times ((5^5 - 5)/5 + 5)) \\
&:= (6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6/6 - 6 \\
&:= 7 + (7 \times 77 \times (7+7)) \\
&:= 8/8 + (8 \times ((888-8) + 8 \times 8)) \\
&:= 9 + ((9/9 + 9 \times 9) \times ((99/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7544 &:= (1+1) \times ((111 \times (1+11 \times (1+1+1))) - (1+1)) \\
&:= 2 \times ((222 \times (2^{2+2} + 2/2)) - 2) \\
&:= 33/3 + (3 \times (3^3 \times (3 \times (3^3 + 3) + 3))) \\
&:= (444 \times (4 \times 4 + 4/4)) - 4 \\
&:= 55 + ((5 \times (5 \times 5 \times (55+5))) - (55/5)) \\
&:= (6 - 66)/6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6) \\
&:= (7 \times 77 \times (7+7)) - (7+7)/7 \\
&:= (8 \times ((888-8) + 8 \times 8)) - 8 \\
&:= (9/9 + 9 \times 9) \times ((99/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7549 &:= 1 + ((1+1) \times (111 \times (1+11 \times (1+1+1)))) \\
&:= 2 + (((2 \times 2 \times 22 - 2/2)^2) - 22) \\
&:= 3 + ((33 - 33/3) \times ((3/3 + 3 + 3)^3)) \\
&:= 4/4 + (444 \times (4 \times 4 + 4/4)) \\
&:= (5 \times ((5 \times 5 \times (55+5)) + 5) + 5) - 5/5 \\
&:= (6 \times (6 \times (6 \times 6 \times 6 - 6))) - 66/6 \\
&:= (7+7+7)/7 + (7 \times 77 \times (7+7)) \\
&:= 8 + ((8 \times ((888-8) + 8 \times 8)) - (88/8)) \\
&:= 999 + (9 \times 9 \times 9 \times 9 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7554 &:= 1 + (111 + (((1+11^{1+1})^{1+1}) / (1+1))) \\
&:= ((2+2+2)^{2/2+2+2}) - 222 \\
&:= 3 + (3 \times ((3 \times 3^{3+3} - 3) + 333)) \\
&:= 4 + ((444 \times (4 \times 4 + 4/4)) + (4+4)/4) \\
&:= 55 + ((5 \times (5 \times 5 \times (55+5))) - 5/5) \\
&:= (6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6 \\
&:= 7 + ((7 \times 77 \times (7+7)) + 7/7) \\
&:= (8+8)/8 + (8 \times ((888-8) + 8 \times 8)) \\
&:= 999/9 + (9 \times (9 \times 9 \times 9 + 99) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7545 &:= ((1+1) \times ((111 \times (1+11 \times (1+1+1))) - 1)) - 1 \\
&:= ((2 \times 2 \times 22 - 2/2)^2) - 22 - 2 \\
&:= 3 + (3 \times (3^3 \times (3 \times (3^3 + 3) + 3) + 3)) \\
&:= 4/4 + ((444 \times (4 \times 4 + 4/4)) - 4) \\
&:= (5 \times (((5 \times 5 \times (55+5)) + 5) + 5)) - 5 \\
&:= (6^{6-6/6}) - ((66 \times (6 \times 6 \times 6)) / (6+6)) \\
&:= (7 \times 77 \times (7+7)) - 7/7 \\
&:= 8/8 + ((8 \times ((888-8) + 8 \times 8)) - 8) \\
&:= 9/9 + ((9/9 + 9 \times 9) \times ((99/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7550 &:= (1+1) \times (1 + (111 \times (1+11 \times (1+1+1)))) \\
&:= 2 + (222 \times ((2 \times 2^{2+2}) + 2)) \\
&:= (3 \times 3 + 3/3) \times ((3^{3+3} - 3/3) + 3^3) \\
&:= (4+4)/4 + (444 \times (4 \times 4 + 4/4)) \\
&:= 5 \times (((5 \times 5 \times (55+5)) + 5) + 5) \\
&:= (6 - 66)/6 + (6 \times (6 \times (6 \times 6 \times 6 - 6))) \\
&:= 77/7 + ((7 \times 77 \times (7+7)) - 7) \\
&:= (8 \times ((888-8) + 8 \times 8)) - (8+8)/8 \\
&:= 99 + (9 \times (9 \times 9 \times 9 + 99) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7555 &:= 1 + (1 + (111 + (((1+11^{1+1})^{1+1}) / (1+1)))) \\
&:= 2 + (((2 \times 2 \times 22 - 2/2)^2) - 2^{2+2}) \\
&:= 3^{3+3} + (((3 \times (3+3)) + 3/3)^3) - 33 \\
&:= 4 + (((444 \times (4 \times 4 + 4/4)) - 4/4) + 4) \\
&:= 55 + (5 \times (5 \times 5 \times (55+5))) \\
&:= 6/6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6) \\
&:= 7 + ((7 \times 77 \times (7+7)) + ((7+7)/7)) \\
&:= 88/8 + ((8 \times ((888-8) + 8 \times 8)) - 8) \\
&:= 9 + (((9+9)/9)^{9-9/9}) + 9 \times 9 \times (9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7546 &:= (1+1) \times ((111 \times (1+11 \times (1+1+1))) - 1) \\
&:= 22 \times ((22/2)^2 + 222) \\
&:= (33 - 33/3) \times ((3/3 + 3 + 3)^3) \\
&:= (444 \times (4 \times 4 + 4/4)) - (4+4)/4 \\
&:= 5^5 + (((5/5 + 5)^{5-5/5}) + 5^5) \\
&:= 6 + ((6/6 - 66) \times (((6 - 666)/6) - 6)) \\
&:= 7 \times 77 \times (7+7) \\
&:= 8 \times 8 + ((8/8 - 88) \times (((8+8)/8) - 88)) \\
&:= 99/9 \times ((99 - 9/9) \times (9 - (9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7551 &:= 1 + ((1+1) \times (1 + (111 \times (1+11 \times (1+1+1)))) \\
&:= 2 + (((2 \times 2 \times 22 - 2/2)^2) - 22) + 2) \\
&:= 3 \times ((3 \times 3^{3+3} - 3) + 333) \\
&:= 4 + ((444 \times (4 \times 4 + 4/4)) - 4/4) \\
&:= (5/5 + 5)^5 + (5 \times ((5 - 55) + 5)) \\
&:= (((6 - 66) + 6)/6) + (6 \times (6 \times (6 \times 6 \times 6 - 6))) \\
&:= 7 + ((7 \times 77 \times (7+7)) - ((7+7)/7)) \\
&:= (8 \times ((888-8) + 8 \times 8)) - 8/8 \\
&:= 99 + 9 \times (9 \times 9 \times 9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7556 &:= ((111 - 1 - 1 - 11)^{1+1}) - (1+1)^{11} \\
&:= (22 - 2)^{2/2+2} - 2 \times 222 \\
&:= (3 \times 3 + 3)^3 + ((3 \times (3+3))^3 - (3/3 + 3)) \\
&:= 4 + ((444 \times (4 \times 4 + 4/4)) + 4) \\
&:= 55 + ((5/5 + 5)^5 - 5 \times 55) \\
&:= (6+6)/6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6) \\
&:= ((77 - 7)/7) + (7 \times 77 \times (7+7)) \\
&:= 8 + (888 / ((8+8)/8) + 8 \times 888) \\
&:= (9 \times (9 \times (99 + 9) - 9)) - 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7547 &:= ((1+1) \times (111 \times (1+11 \times (1+1+1)))) - 1 \\
&:= ((2 \times 2 \times 22 - 2/2)^2) - 22 \\
&:= ((3/3 + 33) \times (((3+3)^3 + 3) + 3)) - 3/3 \\
&:= (444 \times (4 \times 4 + 4/4)) - 4/4 \\
&:= (((55+5)/5) \times ((5^5 - 5)/5 + 5)) - 5/5 \\
&:= (6 \times (6 \times (6 \times 6 \times 6 - 6))) - (6/6 + 6 + 6) \\
&:= 7/7 + (7 \times 77 \times (7+7)) \\
&:= 8 + (((8 \times (888 + 8 \times 8)) - 88) + (88/8)) \\
&:= 999 + (9 \times 9 \times 9 \times 9 - ((99+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7552 &:= (1+1) \times ((1+1)^{11} + ((1+11)^{1+1+1})) \\
&:= 2 + ((222 \times ((2 \times 2^{2+2}) + 2)) + 2) \\
&:= 3/3 + (3 \times ((3 \times 3^{3+3} - 3) + 333)) \\
&:= 4 + (444 \times (4 \times 4 + 4/4)) \\
&:= 5/5 + ((5 \times ((5 - 55) + 5)) + (5/5 + 5)^5) \\
&:= ((6+6)/6)^6 \times ((666+6)/6+6) \\
&:= 7 + ((7 \times 77 \times (7+7)) - 7/7) \\
&:= 8 \times ((888-8) + 8 \times 8) \\
&:= 9/9 + (9 \times (9 \times 9 \times 9 + 99) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7557 &:= 11 \times (11 + (((1+1) \times (1+1+11))^{1+1})) \\
&:= 22/2 \times (((22+2+2)^2) + 22/2) \\
&:= 33 \times (((3^{3+3} - 33)/3) - 3) \\
&:= (44 \times (4 \times 44 - 4)) - 44/4 \\
&:= 55 + (((5/5 + 5)^5 - 5 \times 55) + 5/5) \\
&:= (6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6 \times 6 / (6+6) \\
&:= 77/7 + (7 \times 77 \times (7+7)) \\
&:= 88/8 \times (8 \times 88 - (8/8 + 8 + 8)) \\
&:= 999 + (9 \times 9 \times 9 \times 9 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7558 &:= ((111 - ((1 + 1) \times (1 + 11)))^{1+1}) - 11 \\
&:= ((2 \times 2 \times 22 - 2/2)^2) - 22/2 \\
&:= 3/3 + (((3 \times 3 + 3)^3 - 3) + (3 \times (3 + 3))^3) \\
&:= (4 - 44)/4 + (44 \times (4 \times 44 - 4)) \\
&:= 5 + (((55 + 5)/5) \times ((5^5 - 5)/5 + 5)) + 5 \\
&:= (6 \times (6 \times (6 \times 6 \times 6 - 6))) - (6 + 6)/6 \\
&:= (77 + 7)/7 + (7 \times 77 \times (7 + 7)) \\
&:= ((88 - 8/8)^{(8+8)/8}) - 88/8 \\
&:= 999 + (9 \times 9 \times 9 \times 9 - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7559 &:= (((1 + (1 + 11^{1+1}))^{1+1}) - 11)/(1 + 1) \\
&:= 22/2 + (222 \times ((2 \times 2^{2+2}) + 2)) \\
&:= (3 \times 3 + 3)^3 + ((3 \times (3 + 3))^3 - 3/3) \\
&:= 44/4 + (444 \times (4 \times 4 + 4/4)) \\
&:= ((55 + 5) \times (5 \times 5 \times 5 + 5/5)) - 5/5 \\
&:= (6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6/6 \\
&:= 7 + (((7 \times 77 \times (7 + 7)) - 7/7) + 7) \\
&:= 8 + ((8 \times ((888 - 8) + 8 \times 8)) - 8/8) \\
&:= 999 + (9 \times 9 \times 9 \times 9 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7560 &:= 1 + (((1 + (1 + 11^{1+1}))^{1+1}) - 11)/(1 + 1) \\
&:= (2 - 22) \times (22 - (22 - 2)^2) \\
&:= 3 \times (3 \times 3^{3+3} + 333) \\
&:= (44 \times (4 \times 44 - 4)) - 4 - 4 \\
&:= (55 + 5) \times (5 \times 5 \times 5 + 5/5) \\
&:= 6 \times (6 \times (6 \times 6 \times 6 - 6)) \\
&:= 7 + ((7 \times 77 \times (7 + 7)) + 7) \\
&:= 8 + (8 \times ((888 - 8) + 8 \times 8)) \\
&:= 999 + 9 \times 9 \times 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7561 &:= 1 + (1 + (((1 + (1 + 11^{1+1}))^{1+1}) - 11)/(1 + 1))) \\
&:= ((2 \times 2 \times 22 - 2/2)^2) - 2 \times (2 + 2) \\
&:= 3/3 + (((3 \times 3 + 3)^3 + (3 \times (3 + 3))^3) \\
&:= 4 + ((44 \times (4 \times 44 - 4)) - 44/4) \\
&:= 5 + (((5/5 + 5)^5 - 5 \times 55) + 55) \\
&:= 6/6 + (6 \times (6 \times (6 \times 6 \times 6 - 6))) \\
&:= 7 + (((7 \times 77 \times (7 + 7)) + 7/7) + 7) \\
&:= ((88 - 8/8)^{(8+8)/8}) - 8 \\
&:= 9/9 + (9 \times 9 \times 9 \times 9 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7562 &:= (((1 + (1 + 11^{1+1}))^{1+1}) - 1)/(1 + 1) - 1 - 1 \\
&:= 2 + ((2 - 22) \times (22 - (22 - 2)^2)) \\
&:= 3 + (((3 \times (3 + 3))^3 - 3/3) + (3 \times 3 + 3)^3) \\
&:= (44 \times (4 \times 44 - 4)) - ((4 + 4)/4 + 4) \\
&:= 55 + (((55 + 5)/5) \times (5^5 + 5)/5 - 5) \\
&:= (6 + 6)/6 + (6 \times (6 \times (6 \times 6 \times 6 - 6))) \\
&:= 7 + (((7 \times 77 \times (7 + 7)) + (7 + 7)/7) + 7) \\
&:= 8/8 + (((88 - 8/8)^{(8+8)/8}) - 8) \\
&:= (9 + 9)/9 + (9 \times 9 \times 9 \times 9 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7563 &:= (((1 + (1 + 11^{1+1}))^{1+1}) - 1)/(1 + 1) - 1 \\
&:= ((2 \times 2 \times 22 - 2/2)^2) - 2 - 2 - 2 \\
&:= 3 + ((3 \times 3 + 3)^3 + (3 \times (3 + 3))^3) \\
&:= (44 \times (4 \times 44 - 4)) - 4/4 - 4 \\
&:= (5/5 + 5)^5 + (((5 - 5^5)/(5 + 5 + 5)) - 5) \\
&:= (6 \times 6/(6 + 6)) + (6 \times (6 \times (6 \times 6 \times 6 - 6))) \\
&:= 7 + ((7 \times 77 \times (7 + 7)) + ((77 - 7)/7)) \\
&:= 88/8 + (8 \times ((888 - 8) + 8 \times 8)) \\
&:= 999/9 + 9 \times (9 \times 9 \times 9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7564 &:= (((1 + (1 + 11^{1+1}))^{1+1}) - 1)/(1 + 1) \\
&:= 2 \times ((2 \times (2 \times (2 \times 22^2 - 22))) - 2) \\
&:= ((3^3 + 3/3) + 3) \times ((3^{3+3} + 3)/3) \\
&:= (44 \times (4 \times 44 - 4)) - 4 \\
&:= ((55 + 5/5) + 5) \times (5 \times 5 \times 5 - 5/5) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - ((6 + 6)/6)) \\
&:= 7 + ((7 \times 77 \times (7 + 7)) + (77/7)) \\
&:= ((88 + 8)/8) + (8 \times ((888 - 8) + 8 \times 8)) \\
&:= ((999 + 9)/9) + 9 \times (9 \times 9 \times 9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7565 &:= (1 + ((1 + (1 + 11^{1+1}))^{1+1}))/ (1 + 1) \\
&:= ((2 \times 2 \times 22 - 2/2)^2) - 2 - 2 \\
&:= ((3 \times 3^3 + 3 + 3)^{3-3/3}) - (3/3 + 3) \\
&:= 4/4 + ((44 \times (4 \times 44 - 4)) - 4) \\
&:= 5 + ((55 + 5) \times (5 \times 5 \times 5 + 5/5)) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6/6) \\
&:= 7 + ((7 \times 77 \times (7 + 7)) + (77 + 7)/7) \\
&:= (8/8 + 88) \times ((88 - 88/8) + 8) \\
&:= ((9 - 9/9) + 9) \times ((9 \times 9 \times 99 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7566 &:= 1 + ((1 + ((1 + (1 + 11^{1+1}))^{1+1}))/ (1 + 1)) \\
&:= ((2 \times 2 \times 22 - 2/2)^2) - 2/2 - 2 \\
&:= ((3 \times 3^3 + 3 + 3)^{3-3/3}) - 3 \\
&:= (44 \times (4 \times 44 - 4)) - (4 + 4)/4 \\
&:= (5/5 + 5) \times (((55 + 5^5) + 5^5)/5) \\
&:= 6 + (6 \times (6 \times (6 \times 6 \times 6 - 6))) \\
&:= (7/7 + 77) \times (7 \times (7 + 7) - 7/7) \\
&:= (88 \times (88 - ((8 + 8)/8))) - (8 + 8)/8 \\
&:= (99 - ((9 + 9)/9)) \times (9 \times 9 - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7567 &:= ((111 - ((1 + 1) \times (1 + 11)))^{1+1}) - 1 - 1 \\
&:= ((2 \times 2 \times 22 - 2/2)^2) - 2 \\
&:= 3 + (((3^3 + 3/3) + 3) \times ((3^{3+3} + 3)/3)) \\
&:= (44 \times (4 \times 44 - 4)) - 4/4 \\
&:= 55 + (((55 + 5)/5) \times (5^5 + 5)/5) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) + 6/6) \\
&:= 7 + (((7 \times 77 \times (7 + 7)) + 7) + 7) \\
&:= (88 \times (88 - ((8 + 8)/8))) - 8/8 \\
&:= 9 + ((9 \times 9 \times 9 \times 9 - ((9 + 9)/9)) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7568 &:= ((111 - ((1 + 1) \times (1 + 11)))^{1+1}) - 1 \\
&:= 2 \times (2 \times (2 \times (2 \times 22^2 - 22))) \\
&:= ((3 \times 3^3 + 3 + 3)^{3-3/3}) - 3/3 \\
&:= 44 \times (4 \times 44 - 4) \\
&:= (5/5 + 5)^5 + (((5 - 5^5)/(5 + 5 + 5)) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) + ((6 + 6)/6)) \\
&:= 7 + (((7 \times 77 \times (7 + 7)) + 7/7) + 7) + 7) \\
&:= 88 \times (88 - ((8 + 8)/8)) \\
&:= 9 + ((9 \times 9 \times 9 \times 9 - 9/9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7569 &:= (111 - ((1 + 1) \times (1 + 11)))^{1+1} \\
&:= (2 \times 2 \times 22 - 2/2)^2 \\
&:= (3 \times 3^3 + 3 + 3)^{3-3/3} \\
&:= 4/4 + (44 \times (4 \times 44 - 4)) \\
&:= (((5 + 5)/5)^5 + 55)^{(5+5)/5} \\
&:= 6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) + (6 \times 6/(6 + 6))) \\
&:= (((77 - 7)/7) + 77)^{(7+7)/7} \\
&:= (88 - 8/8)^{(8+8)/8} \\
&:= 9 + (9 \times 9 \times 9 \times 9 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7570 &:= 1 + ((111 - ((1 + 1) \times (1 + 11)))^{1+1}) \\
&:= 2/2 + ((2 \times 2 \times 22 - 2/2)^2) \\
&:= 3/3 + ((3 \times 3^3 + 3 + 3)^{3-3/3}) \\
&:= (4 + 4)/4 + (44 \times (4 \times 44 - 4)) \\
&:= (5 \times (5 \times (5 \times (55 + 5) + 5))) - 55 \\
&:= ((66 - 6)/6) + (6 \times (6 \times (6 \times 6 \times 6 - 6))) \\
&:= 7 + (((7 \times 77 \times (7 + 7)) + ((77 - 7)/7)) + 7) \\
&:= 8/8 + ((88 - 8/8)^{(8+8)/8}) \\
&:= 9 + ((9 \times 9 \times 9 \times 9 + 999) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7571 &:= 1 + (1 + ((111 - ((1 + 1) \times (1 + 11)))^{1+1})) \\
&:= 2 + ((2 \times 2 \times 22 - 2/2)^2) \\
&:= 3 + (((3 \times 3^3 + 3 + 3)^{3-3/3}) - 3/3) \\
&:= 4 + ((44 \times (4 \times 44 - 4)) - 4/4) \\
&:= (5/5 + 5)^5 + (((5 + 5) \times (5 - 5 \times 5)) - 5) \\
&:= 66/6 + (6 \times (6 \times (6 \times 6 \times 6 - 6))) \\
&:= 7 + (((7 \times 77 \times (7 + 7)) + (77/7)) + 7) \\
&:= (8 + 8)/8 + ((88 - 8/8)^{(8+8)/8}) \\
&:= 99/9 + (9 \times 9 \times 9 \times 9 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7572 &:= 1 + (1 + (1 + ((111 - ((1 + 1) \times (1 + 11)))^{1+1}))) \\
&:= 2 + (((2 \times 2 \times 22 - 2/2)^2) + 2/2) \\
&:= 3 + ((3 \times 3^3 + 3 + 3)^{3-3/3}) \\
&:= 4 + (44 \times (4 \times 44 - 4)) \\
&:= ((55 + 5)/5) \times ((5^5 + 5)/5 + 5) \\
&:= 6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) + 6) \\
&:= 7777 - (((7 + 7)/7)^7 + 77) \\
&:= 88/8 + (((88 - 8/8)^{(8+8)/8}) - 8) \\
&:= 9 + (9 \times (9 \times 9 \times 9 + 99) + 999/9)
\end{aligned}$$

- ▶ **7573** := $1 + (1 + (1 + (1 + ((111 - ((1 + 1) \times (1 + 11)))^{1+1})))$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) + 2)$
:= $3 + (((3 \times 3^3 + 3 + 3)^{3-3/3}) + 3/3)$
:= $4 + ((44 \times (4 \times 44 - 4)) + 4/4)$
:= $5 + (((5 - 5^5)/(5 + 5 + 5)) + (5/5 + 5)^5)$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) + 6/6) + 6)$
:= $7 + ((7/7 + 77) \times (7 \times (7 + 7) - 7/7))$
:= $8 + ((8/8 + 88) \times ((88 - 88/8) + 8))$
:= $9 \times 9 \times 9 + (9999/9 - 99)$
- ▶ **7574** := $11 + (((((1 + (1 + 11^{1+1}))^{1+1}) - 1)/(1 + 1)) - 1)$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) + 2/2) + 2)$
:= $3 + (((3 \times 3^3 + 3 + 3)^{3-3/3} - 3/3) + 3)$
:= $4 + ((44 \times (4 \times 44 - 4)) + (4 + 4)/4)$
:= $5 + (((5 + 5)/5)^5 + 55)^{(5+5)/5}$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) + ((6 + 6)/6)) + 6)$
:= $77 + (7 \times (77 \times (7 + 7) - 7))$
:= $8 + ((88 \times (88 - ((8 + 8)/8))) - ((8 + 8)/8))$
:= $9 \times 9 \times 99 + ((9 - 9 \times 9 \times 99)/(9 + 9))$
- ▶ **7575** := $11 + (((1 + (1 + 11^{1+1}))^{1+1}) - 1)/(1 + 1)$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) + 2) + 2)$
:= $3 + (((3 \times 3^3 + 3 + 3)^{3-3/3}) + 3)$
:= $4 + (((44 \times (4 \times 44 - 4)) - 4/4) + 4)$
:= $5 \times (((5 \times 5 \times (55 + 5)) + 5) + 5) + 5)$
:= $(6^{6-6/6}) - ((6 \times 66 + 6)/(6 + 6)/6)$
:= $7/7 + ((7 \times (77 \times (7 + 7) - 7)) + 77)$
:= $8 + ((88 \times (88 - ((8 + 8)/8))) - 8/8)$
:= $9 + ((99 - ((9 + 9)/9)) \times (9 \times 9 - ((9 + 9 + 9)/9)))$
- ▶ **7576** := $11 + ((1 + ((1 + (1 + 11^{1+1}))^{1+1}))/ (1 + 1))$
:= $2 \times (2 \times ((2 \times (2 \times 22^2 - 22)) + 2))$
:= $(3^3 \times (333 - 3)) - ((33/3)^3 + 3)$
:= $4 + ((44 \times (4 \times 44 - 4)) + 4)$
:= $(5/5 + 5)^5 + ((5 + 5) \times (5 - 5 \times 5))$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) + ((66 - 6)/6))$
:= $7 + (((77 - 7)/7) + 77)^{(7+7)/7}$
:= $8 + (88 \times (88 - ((8 + 8)/8)))$
:= $9 \times 9 \times 9 \times 9 + (((9 + 9)/9)^{9/9+9}) - 9)$
- ▶ **7577** := $1 + (11 + ((1 + ((1 + (1 + 11^{1+1}))^{1+1}))/ (1 + 1)))$
:= $2 \times (2 + 2) + ((2 \times 2 \times 22 - 2/2)^2)$
:= $((3 + 3) \times (((3 + 3)^{3/3+3}) - 33)) - 3/3$
:= $4 + (((44 \times (4 \times 44 - 4)) + 4/4) + 4)$
:= $5 + (((55 + 5)/5) \times ((5^5 + 5)/5 + 5))$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) + (66/6))$
:= $(7 \times (777 - 7)) + ((7 + 7 + 7)/7)^7$
:= $8 + ((88 - 8/8)^{(8+8)/8})$
:= $9 + (((9 \times 9 \times 9 \times 9 - 9/9) + 999) + 9)$
- ▶ **7578** := $11 + (((111 - ((1 + 1) \times (1 + 11)))^{1+1}) - (1 + 1))$
:= $2 + (2 \times (2 \times ((2 \times (2 \times 22^2 - 22)) + 2)))$
:= $(3 + 3) \times (((3 + 3)^{3/3+3}) - 33)$
:= $(44 - 4)/4 + (44 \times (4 \times 44 - 4))$
:= $5 + (((5 - 5^5)/(5 + 5 + 5)) + (5/5 + 5)^5) + 5)$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) + 6) + 6)$
:= $7 + (((7 \times 77 \times (7 + 7)) + (77/7)) + 7) + 7)$
:= $8 + (((88 - 8/8)^{(8+8)/8}) + 8/8)$
:= $9 + ((9 \times 9 \times 9 \times 9 + 999) + 9)$
- ▶ **7579** := $11 + (((111 - ((1 + 1) \times (1 + 11)))^{1+1}) - 1)$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) + 2 \times (2 + 2))$
:= $(3^3 \times (333 - 3)) - (33/3)^3$
:= $44/4 + (44 \times (4 \times 44 - 4))$
:= $5 + (((5 + 5)/5)^5 + 55)^{(5+5)/5} + 5)$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) + 6/6) + 6) + 6)$
:= $7777/7 + 77 \times (77 + 7)$
:= $88/8 + (88 \times (88 - ((8 + 8)/8)))$
:= $9 \times (9 \times 99 + 9) - (((9 + 9)/9)^9 + 9)$
- ▶ **7580** := $11 + ((111 - ((1 + 1) \times (1 + 11)))^{1+1})$
:= $22/2 + ((2 \times 2 \times 22 - 2/2)^2)$
:= $33/3 + ((3 \times 3^3 + 3 + 3)^{3-3/3})$
:= $4 + (((44 \times (4 \times 44 - 4)) + 4) + 4)$
:= $55 + (5 \times ((5 \times 5 \times (55 + 5)) + 5))$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) + ((6 + 6)/6)) + 6) + 6)$
:= $7777 - ((7 + 7) \times (7 + 7) + 7/7)$
:= $88/8 + ((88 - 8/8)^{(8+8)/8})$
:= $9 + ((9 \times 9 \times 9 \times 9 + 999) + (99/9))$
- ▶ **7581** := $1 + (11 + ((111 - ((1 + 1) \times (1 + 11)))^{1+1}))$
:= $(22 - 2/2) \times ((22 - (2/2 + 2))^2)$
:= $3 + ((3 + 3) \times (((3 + 3)^{3/3+3}) - 33))$
:= $4 \times 4^4 + (((4 - 4/4)^{4+4}) - 4)$
:= $5 + (((5 + 5) \times (5 - 5 \times 5)) + (5/5 + 5)^5)$
:= $(6^{6-6/6}) + ((6 - 6 \times 66)/(6 + 6)/6)$
:= $7777 - (7 + 7) \times (7 + 7)$
:= $((88 + 8)/8) + ((88 - 8/8)^{(8+8)/8})$
:= $9 + ((9 \times (9 \times 9 \times 9 + 99) + 999/9) + 9)$
- ▶ **7582** := $(1 + 11 \times (1 + 1 + 1)) \times (1 + (1 + 1) \times 111)$
:= $(2^{2+2} + 2/2) \times (2 \times 222 + 2)$
:= $3 + ((3^3 \times (333 - 3)) - (33/3)^3)$
:= $(4 \times 4 + 4/4) \times (444 + (4 + 4)/4)$
:= $5 + (((55 + 5)/5) \times ((5^5 + 5)/5 + 5)) + 5)$
:= $((66 + 66)/6) + (6 \times (6 \times (6 \times 6 \times 6 - 6)))$
:= $7/7 + (7777 - (7 + 7) \times (7 + 7))$
:= $(8/8 + 8 + 8) \times (8 \times (8 \times 8 - 8) - ((8 + 8)/8))$
:= $((9 - 9/9) + 9) \times ((9 \times 9 \times 99 + 9)/ (9 + 9))$
- ▶ **7583** := $1 + ((1 + 11 \times (1 + 1 + 1)) \times (1 + (1 + 1) \times 111))$
:= $2 + ((22 - 2/2) \times ((22 - (2/2 + 2))^2))$
:= $(3 \times ((33/3 + 3)^3 - (3 + 3)^3)) - 3/3$
:= $4 + ((44 \times (4 \times 44 - 4)) + 44/4)$
:= $55 + ((5/5 + 5)^5 - (((5 - (5 + 5)/5)^5) + 5))$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) + (66/6)) + 6)$
:= $(7 \times (77 \times (7 + 7) + 7)) - (77 + 7)/7$
:= $((88 + 8) \times (88 - (8/8 + 8))) - 8/8$
:= $9 + (((9 - 9 \times 9 \times 99)/(9 + 9)) + 9 \times 9 \times 99)$
- ▶ **7584** := $1 + (1 + ((1 + 11 \times (1 + 1 + 1)) \times (1 + (1 + 1) \times 111)))$
:= $2 \times (2 \times ((2 \times 22)^2 + (2 \times (2 - 22))))$
:= $3 \times ((33/3 + 3)^3 - (3 + 3)^3)$
:= $4 \times ((44 \times (44 - 4/4)) + 4)$
:= $((55 + 5)/5) \times ((5^5 + 5 + 5)/5 + 5)$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) - 6 - 6$
:= $(7 \times (77 \times (7 + 7) + 7)) - 77/7$
:= $(88 + 8) \times (88 - (8/8 + 8))$
:= $(9 \times 9 - ((9 + 9)/9)) \times (99 - ((9 + 9 + 9)/9))$
- ▶ **7585** := $(1 + 1)^{11-1} + ((1 + 1 + 1)^{(1+1) \times (1+1+1)})$
:= $2^{2+2} + ((2 \times 2 \times 22 - 2/2)^2)$
:= $3^{3+3} + (((3 \times (3 + 3)) + 3/3)^3) - 3)$
:= $4 \times 4^4 + ((4 - 4/4)^{4+4})$
:= $5 + ((5 \times ((5 \times 5 \times (55 + 5)) + 5)) + 55)$
:= $(6 \times 6 + 6/6) \times (6 \times 6 \times 6 - (66/6))$
:= $((7 - 77)/7) + (7 \times (77 \times (7 + 7) + 7))$
:= $8 + (((88 - 8/8)^{(8+8)/8}) + 8)$
:= $9 \times 9 \times 9 \times 9 + (((9 + 9)/9)^{9/9+9})$
- ▶ **7586** := $1 + (1 + 1)^{11-1} + (1 + 1 + 1)^{(1+1) \times (1+1+1)}$
:= $2 + (2 \times (2 \times ((2 \times 22)^2 + (2 \times (2 - 22))))$
:= $(3 \times (33 \times 3^3)) + (33/3 + 3 + 3)^3$
:= $4/4 + (((4 - 4/4)^{4+4}) + 4 \times 4^4)$
:= $5 + (((5 + 5) \times (5 - 5 \times 5)) + (5/5 + 5)^5) + 5)$
:= $(6 - 66)/6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6))$
:= $(7 \times (77 \times (7 + 7) + 7)) - ((7 + 7)/7 + 7)$
:= $8 + (((88 - 8/8)^{(8+8)/8}) + 8/8) + 8)$
:= $9 + (((9 \times 9 \times 9 \times 9 - 9/9) + 999) + 9) + 9)$
- ▶ **7587** := $(1 + 1 + 1) \times (((111 - 1) \times (1 + (11 + 11))) - 1)$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) + 2^{2+2})$
:= $3 \times ((3 \times (3^{3+3} + 3)) + 333)$
:= $4 + (((44 \times (4 \times 44 - 4)) + 44/4) + 4)$
:= $((5 + 5)/5 + 5 \times 5) \times ((5 \times 55 + 5/5) + 5)$
:= $6 + (((6 - 6 \times 66)/(6 + 6)/6) + (6^{6-6/6}))$
:= $(7 \times (77 \times (7 + 7) + 7)) - (7/7 + 7)$
:= $8 + ((88 \times (88 - ((8 + 8)/8))) + (88/8))$
:= $9 + (((9 \times 9 \times 9 \times 9 + 999) + 9) + 9)$

- ▶ **7588** := $1 + ((1 + 1 + 1) \times (((111 - 1) \times (1 + (11 + 11)))) - 1)$
:= $22^2 + (2 \times (2^{2+2} \times 222))$
:= $3^{3+3} + (((3 \times (3 + 3)) + 3/3)^3)$
:= $4 + ((44 \times (4 \times 44 - 4)) + 4 \times 4)$
:= $55 + ((5/5 + 5)^5 - ((5 - (5 + 5)/5)^5))$
:= $((6 + 6)/6)^6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) - 6))$
:= $(7 \times (77 \times (7 + 7) + 7)) - 7$
:= $8 \times 888 + 88 \times 88 / (8 + 8)$
:= $9 \times (9 \times 99 + 9) - ((9 + 9)/9)^9$
- ▶ **7593** := $(1 + 1 + 1) \times (1 + ((111 - 1) \times (1 + (11 + 11))))$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) + 22)$
:= $3 + (33 \times (((3 + 3)^3 + 33/3) + 3))$
:= $4 + (((4 - 4/4)^{4+4}) + 4 \times 4^4) + 4$
:= $(5 \times (5 \times (5 \times (55 + 5) + 5))) - ((5 + 5)/5)^5$
:= $(6^{6-6/6}) - ((666/6 + 66) + 6)$
:= $(7 \times (77 \times (7 + 7) + 7)) - (7 + 7)/7$
:= $8 + (((88 - 8/8)^{(8+8)/8}) + 8) + 8$
:= $9 + ((9 \times 9 - ((9 + 9)/9)) \times (99 - ((9 + 9 + 9)/9)))$
- ▶ **7598** := $(1 + 1)^{11} + ((11111 - 11)/(1 + 1))$
:= $((22 - 2)^2 \times (22 - (2/2 + 2))) - 2$
:= $3 + (((33 - 3/3) + 3) \times ((3 + 3)^3 + 3/3))$
:= $4 + (((4^4 + 4 + 4)/4) \times (444/4 + 4)) + 4$
:= $(5 + 5)/5 \times (5 \times 555 + (5 - 5/5)^5)$
:= $(6 + 6)/6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6))$
:= $(7 + 7 + 7)/7 + (7 \times (77 \times (7 + 7) + 7))$
:= $(8 - 88)/8 + ((8 \times (888 + 8 \times 8)) - 8)$
:= $9 + ((9 \times (9 \times 99 + 9) - ((9 + 9)/9)^9) + 9/9)$
- ▶ **7589** := $((1 + 1 + 1) \times ((111 - 1) \times (1 + (11 + 11)))) - 1$
:= $22 + (((2 \times 2 \times 22 - 2/2)^2) - 2)$
:= $3/3 + (((3 \times (3 + 3)) + 3/3)^3) + 3^{3+3}$
:= $4 + (((4 - 4/4)^{4+4}) + 4 \times 4^4)$
:= $5 + (((55 + 5)/5) \times ((5^5 + 5 + 5)/5 + 5))$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) - 6/6 - 6$
:= $7/7 + ((7 \times (77 \times (7 + 7) + 7)) - 7)$
:= $(8 \times (888 + 8 \times 8)) - (88/8 + 8 + 8)$
:= $9/9 + (9 \times (9 \times 99 + 9) - ((9 + 9)/9)^9)$
- ▶ **7594** := $1 + ((1 + 1 + 1) \times (1 + ((111 - 1) \times (1 + (11 + 11))))$
:= $(2^{22/2+2}) - (((22 + 2)^2) + 22)$
:= $3 + (((3 \times (3 + 3)) + 3/3)^3) + 3^{3+3} + 3$
:= $4 + (((4^4 + 4 + 4)/4) \times (444/4 + 4))$
:= $5 \times 5 + (((5 + 5)/5)^5 + 55)^{(5+5)/5}$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) - (6 + 6)/6$
:= $(7 \times (77 \times (7 + 7) + 7)) - 7/7$
:= $(8 + 8)/8 + (88 \times 88 - (8 \times 8 + 88))$
:= $9 + (((9 + 9)/9)^{9/9+9}) + 9 \times 9 \times 9 \times 9$
- ▶ **7599** := $1 + ((1 + 1)^{11} + ((11111 - 11)/(1 + 1)))$
:= $((22 - 2)^2 \times (22 - (2/2 + 2))) - 2/2$
:= $((3/3 + 3 + 3) \times (33 \times 33 - 3)) - 3$
:= $(4 \times 4 + 4/4) \times ((444 - 4/4) + 4)$
:= $(5 \times ((5 \times (5 \times (55 + 5) + 5)) - 5)) - 5/5$
:= $(6^{6-6/6}) - (666/6 + 66)$
:= $77/7 + ((7 \times (77 \times (7 + 7) + 7)) - 7)$
:= $(8/8 + 8 + 8) \times (8 \times (8 \times 8 - 8) - 8/8)$
:= $9 + (((9999 - 9)/9) + 9 \times (9 \times 9 - 9))$
- ▶ **7590** := $(1 + 1 + 1) \times ((111 - 1) \times (1 + (11 + 11)))$
:= $22 \times (((22/2)^2 + 222) + 2)$
:= $33 \times (((3 + 3)^3 + 33/3) + 3)$
:= $((4^4 + 4 + 4)/4) \times (444/4 + 4)$
:= $55 \times ((5 \times 5 \times 55 + 5)/(5 + 5))$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) - 6$
:= $(7 + 7)/7 + ((7 \times (77 \times (7 + 7) + 7)) - 7)$
:= $88/8 \times (((8 + 8)/8) - (8 + 8)) + 8 \times 88$
:= $(9/9 + 9) \times (9 \times (9 \times 9 - 9) + 999/9)$
- ▶ **7595** := $(1 + 1 + 1) \times ((1 + 11) \times ((1 + 1) \times 111 - 11)) - 1$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) + 22) + 2$
:= $((33 - 3/3) + 3) \times ((3 + 3)^3 + 3/3)$
:= $(4 \times (4 + 4) - 4/4) \times (4^4 - 44/4)$
:= $(5 \times ((5 \times (5 \times (55 + 5) + 5)) - 5)) - 5$
:= $(6 \times 6 - 6/6) \times (6 \times 6 \times 6 + 6/6)$
:= $7 \times (77 \times (7 + 7) + 7)$
:= $88/8 + ((88 + 8) \times (88 - (8/8 + 8)))$
:= $((9 + 9) \times (((9 + 9)/9)^9 - 99) + 9) - 9/9$
- ▶ **7600** := $((1 + 1) \times (11 - 1) - 1) \times ((1 + 1) \times (11 - 1))^{1+1}$
:= $(22 - 2)^2 \times (22 - (2/2 + 2))$
:= $(3 \times 3^3 - 3/3) \times (3 \times 33 - (3/3 + 3))$
:= $4 \times (((44 \times (44 - 4/4)) + 4) + 4)$
:= $5 \times ((5 \times (5 \times (55 + 5) + 5)) - 5)$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) - ((6 + 6)/6))$
:= $7 + ((7 \times (77 \times (7 + 7) + 7)) - ((7 + 7)/7))$
:= $(88 - 8) \times (88 - 8/8 + 8)$
:= $9 + (9 \times (9 \times 9 \times 9 - 9) + 9999/9)$
- ▶ **7591** := $1 + ((1 + 1 + 1) \times ((111 - 1) \times (1 + (11 + 11))))$
:= $22 + ((2 \times 2 \times 22 - 2/2)^2)$
:= $3 + (((3 \times (3 + 3)) + 3/3)^3) + 3^{3+3}$
:= $44 + ((444 \times (4 \times 4 + 4/4)) - 4/4)$
:= $(5/5 + 5)^5 - ((5 \times 5 \times 5 + 55) + 5)$
:= $6/6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) - 6)$
:= $7 + ((7 \times (77 \times (7 + 7) + 7)) - (77/7))$
:= $88 \times 88 - ((8 \times 8 + 88) + 8/8)$
:= $9 \times (9 \times 9 \times 9 - 9) + 9999/9$
- ▶ **7596** := $(1 + 1 + 1) \times ((1 + 11) \times ((1 + 1) \times 111 - 11))$
:= $(2/2 + 2) \times (2^{22/2} + 22^2)$
:= $3 \times (((3 \times (3^{3+3} + 3)) + 333) + 3)$
:= $((4 + 4) + 4) \times (((4/4 + 4)^4 + 4) + 4)$
:= $(5/5 + 5)^5 - (5 \times 5 \times 5 + 55)$
:= $6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)$
:= $7/7 + (7 \times (77 \times (7 + 7) + 7))$
:= $8 + (88 \times 88 / (8 + 8) + 8 \times 888)$
:= $(9 + 9) \times (((9 + 9)/9)^9 - 99) + 9$
- ▶ **7601** := $11 \times ((1 + 1)^{11-1} - (1 + 1 + 1) \times 111)$
:= $2/2 + ((22 - 2)^2 \times (22 - (2/2 + 2)))$
:= $33/3 \times (3^{3+3} - (33/3 + 3^3))$
:= $4 \times (4^4 + 4) + ((4 - 4/4)^{4+4})$
:= $(5/5 + 5)^5 - (5 \times ((5 \times 5 + 5) + 5))$
:= $6 + ((6 \times 6 - 6/6) \times (6 \times 6 \times 6 + 6/6))$
:= $7 + ((7 \times (77 \times (7 + 7) + 7)) - 7/7)$
:= $8/8 + ((88 - 8) \times (88 - 8/8 + 8))$
:= $9 + ((9999 + 9)/9 + 9 \times (9 \times 9 - 9))$
- ▶ **7592** := $1 + (1 + ((1 + 1 + 1) \times ((111 - 1) \times (1 + (11 + 11))))$
:= $2 + (22 \times (((22/2)^2 + 222) + 2))$
:= $((33 - 3/3) + 3) \times ((3 + 3)^3 + 3/3) - 3$
:= $44 + (444 \times (4 \times 4 + 4/4))$
:= $5 + (((5 + 5)/5 + 5 \times 5) \times ((5 \times 55 + 5/5) + 5))$
:= $(6 + 6)/6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) - 6)$
:= $(7 \times (77 \times (7 + 7) + 7)) - (7 + 7 + 7)/7$
:= $88 \times 88 - (8 \times 8 + 88)$
:= $(9 - 9/9) \times (9999/9 - 9 \times (9 + 9))$
- ▶ **7597** := $1 + ((1 + 1 + 1) \times ((1 + 11) \times ((1 + 1) \times 111 - 11)))$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) + 22) + 2 + 2$
:= $3 \times 3 + (((3 \times (3 + 3)) + 3/3)^3) + 3^{3+3}$
:= $4 \times (4^4 + 4) + (((4 - 4/4)^{4+4}) - 4)$
:= $5 \times 5 + (((55 + 5)/5) \times ((5^5 + 5)/5 + 5))$
:= $6/6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6))$
:= $(7 + 7)/7 + (7 \times (77 \times (7 + 7) + 7))$
:= $(8 \times (888 + 8 \times 8)) - (88/8 + 8)$
:= $9 + (9 \times (9 \times 99 + 9) - ((9 + 9)/9)^9)$
- ▶ **7602** := $(1 + 1)^{11} + (((11111 - 1)/(1 + 1)) - 1)$
:= $2 + ((22 - 2)^2 \times (22 - (2/2 + 2)))$
:= $(3/3 + 3 + 3) \times (33 \times 33 - 3)$
:= $4/4 + (((4 - 4/4)^{4+4}) + 4 \times (4^4 + 4))$
:= $5/5 + ((5/5 + 5)^5 - (5 \times ((5 \times 5 + 5) + 5)))$
:= $6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6))$
:= $7 + (7 \times (77 \times (7 + 7) + 7))$
:= $(8 + 8)/8 + ((88 - 8) \times (88 - 8/8 + 8))$
:= $9 \times 9 \times (9 + 9) + ((99 + 9)/9 \times ((9 + 9)/9)^9)$

- ▶ **7603** := $(1+1)^{11} + ((11111-1)/(1+1))$
:= $((2 \times 22 + 2/2) \times ((22/2 + 2)^2)) - 2$
:= $3/3 + ((3/3 + 3 + 3) \times (33 \times 33 - 3))$
:= $4 + ((4 \times 4 + 4/4) \times ((444 - 4/4) + 4))$
:= $5555 + (((5+5)/5)^{5/5})$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) + 6/6)$
:= $7 + ((7 \times (77 \times (7+7) + 7)) + 7/7)$
:= $88/8 + (88 \times 88 - (8 \times 8 + 88))$
:= $(9 \times ((9 \times 9 \times 9 + 99 + 9) + 9)) - 99/9$
- ▶ **7604** := $(1+1)^{11} + ((1+11111)/(1+1))$
:= $2 + (((22-2)^2 \times (22 - (2/2 + 2))) + 2)$
:= $((33/3 + 3 \times 3)^3) - (33 \times (3 \times 3 + 3))$
:= $4 + ((44 \times (4 \times 44 - 4)) + 4 \times (4 + 4))$
:= $5 + ((5 \times ((5 \times (5 \times (55 + 5) + 5)) - 5)) - 5/5)$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) + ((6+6)/6))$
:= $7 + ((7 \times (77 \times (7+7) + 7)) + ((7+7)/7))$
:= $(8 \times (888 + 8 \times 8)) - (88 + 8)/8$
:= $(9 \times ((9 \times 9 \times 9 + 99 + 9) + 9)) - 9/9 - 9$
- ▶ **7605** := $1 + ((1+1)^{11} + ((1+11111)/(1+1)))$
:= $(2 \times 22 + 2/2) \times ((22/2 + 2)^2)$
:= $(33 + 3 + 3) \times (33 \times (3 + 3) - 3)$
:= $4 + (((4 - 4/4)^{4+4}) + 4 \times (4^4 + 4))$
:= $5 + (5 \times ((5 \times (5 \times (55 + 5) + 5)) - 5))$
:= $(66 - 6/6) \times (666/6 + 6)$
:= $((77 - 7)/7) + (7 \times (77 \times (7+7) + 7))$
:= $(8 \times (888 + 8 \times 8)) - 88/8$
:= $(9 \times ((9 \times 9 \times 9 + 99 + 9) + 9)) - 9$
- ▶ **7606** := $1 + (1 + ((1+1)^{11} + ((1+11111)/(1+1))))$
:= $2 + (((22-2)^2 \times (22 - (2/2 + 2))) + 2) + 2$
:= $3/3 + ((33 + 3 + 3) \times (33 \times (3 + 3) - 3))$
:= $4 + (((4 - 4/4)^{4+4}) + 4 \times (4^4 + 4)) + 4/4$
:= $5 + ((5/5 + 5)^5 - (5 \times ((5 \times 5 + 5) + 5)))$
:= $6/6 + ((66 - 6/6) \times (666/6 + 6))$
:= $77/7 + (7 \times (77 \times (7+7) + 7))$
:= $(8 - 88)/8 + (8 \times (888 + 8 \times 8))$
:= $99 + (9 \times 9 \times 99 - ((9+9)/9)^9)$
- ▶ **7607** := $1 + (1 + (1 + ((1+1)^{11} + ((1+11111)/(1+1))))$
:= $2 + ((2 \times 22 + 2/2) \times ((22/2 + 2)^2))$
:= $3 + (((33/3 + 3 \times 3)^3) - (33 \times (3 \times 3 + 3)))$
:= $((44 - 4/4) \times (4 \times 44 + 4/4)) - 4$
:= $((55 + 5)/5) \times ((55 + 5^5)/5) - 5 \times 5$
:= $66/6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6))$
:= $(77 + 7)/7 + (7 \times (77 \times (7+7) + 7))$
:= $(8 \times (888 + 8 \times 8)) - (8/8 + 8)$
:= $((9 - (9+9)/9) \times ((99 \times 99 - 9)/9)) - 9$
- ▶ **7608** := $(1+11) \times (1 + ((1+1+1) \times ((1+1) \times 111 - 11)))$
:= $2 \times ((2^{2+2+2} - 2)^2 + (2 \times (2 - 22)))$
:= $3 + ((33 + 3 + 3) \times (33 \times (3 + 3) - 3))$
:= $44 + ((44 \times (4 \times 44 - 4)) - 4)$
:= $((55 + 5)/5) \times (((5^5 - 5)/5 + 5) + 5)$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) + 6)$
:= $7 + (((7 \times (77 \times (7+7) + 7)) - 7/7) + 7)$
:= $(8 \times (888 + 8 \times 8)) - 8$
:= $(9 - 9/9) \times (9 \times (99 + 9) - ((99 + 9)/9 + 9))$
- ▶ **7609** := $(1+1)^{11} + ((11+11111)/(1+1))$
:= $2 \times (22 - 2) + ((2 \times 2 \times 22 - 2/2)^2)$
:= $(3/3 + 3 + 3) \times ((33 \times 33 - 3) + 3/3)$
:= $4 + (((4 - 4/4)^{4+4}) + 4 \times (4^4 + 4)) + 4$
:= $(5/5 + 5)^5 - ((555 + 5)/5 + 55)$
:= $6 + (((6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) + 6/6) + 6)$
:= $7 + ((7 \times (77 \times (7+7) + 7)) + 7)$
:= $8/8 + ((8 \times (888 + 8 \times 8)) - 8)$
:= $(9 - (9+9)/9) \times ((99 \times 99 - (9+9)/9))$
- ▶ **7610** := $1 + ((1+1)^{11} + ((11+11111)/(1+1)))$
:= $(22 \times (((2^{2+2} + 2)^2) + 22)) - 2$
:= $(3 \times 3 + 3/3) \times ((3^{3+3} - 3/3) + 33)$
:= $44 + ((44 \times (4 \times 44 - 4)) - (4 + 4)/4)$
:= $5 + ((5 \times ((5 \times (5 \times (55 + 5) + 5)) - 5)) + 5)$
:= $((666 + 6)/6 \times (((6+6)/6) + 66)) - 6$
:= $7 + (((7 \times (77 \times (7+7) + 7)) + 7/7) + 7)$
:= $(8 + 8)/8 + ((8 \times (888 + 8 \times 8)) - 8)$
:= $(9/9 + 9) \times (((99/9) \times (9 \times 9 - 99/9)) - 9)$
- ▶ **7611** := $111 + ((1+11) \times (1 + (1+1) \times (1+11))^{1+1})$
:= $2 \times 22 + (((2 \times 2 \times 22 - 2/2)^2) - 2)$
:= $(3 \times ((3 \times 33 \times 33) - 3^{3+3})) - 3$
:= $(44 - 4/4) \times (4 \times 44 + 4/4)$
:= $555/5 + (5 \times (5 \times 5 \times (55 + 5)))$
:= $6 + ((66 - 6/6) \times (666/6 + 6))$
:= $7 + (((7 \times (77 \times (7+7) + 7)) + ((7+7)/7)) + 7)$
:= $88/8 + ((88 - 8) \times (88 - 8/8 + 8))$
:= $(9 \times ((9 \times 9 \times 9 + 99 + 9) + 9)) - (9 + 9 + 9)/9$
- ▶ **7612** := $11 \times ((11 \times ((1+1+1) \times (11 + (11 - 1)))) - 1)$
:= $22 \times (((2^{2+2} + 2)^2) + 22)$
:= $33/3 \times (3^{3+3} - (3/3 + 33 + 3))$
:= $44 + (44 \times (4 \times 44 - 4))$
:= $(5 + 5)/5 \times (((5^5 + 5)/5 + 5^5) + 55)$
:= $6 + (((66 - 6/6) \times (666/6 + 6)) + 6/6)$
:= $77 + ((7 \times 77 \times (7+7)) - (77/7))$
:= $88/8 \times (8 \times 88 - ((88 + 8)/8))$
:= $99/9 \times (((9+9)/9)^9 + 9 \times 9) + 99$
- ▶ **7613** := $(1 + (11 + 11)) \times (1 + ((1+1+1) \times (111 - 1)))$
:= $2 \times 22 + ((2 \times 2 \times 22 - 2/2)^2)$
:= $(3^3 - 3/3 - 3) \times ((333 - 3) + 3/3)$
:= $44 + ((44 \times (4 \times 44 - 4)) + 4/4)$
:= $5 + (((55 + 5)/5) \times (((5^5 - 5)/5 + 5) + 5))$
:= $6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) + (66/6))$
:= $7 + ((7 \times (77 \times (7+7) + 7)) + (77/7))$
:= $8 + ((8 \times (888 + 8 \times 8)) - (88/8))$
:= $(9 \times ((9 \times 9 \times 9 + 99 + 9) + 9)) - 9/9$
- ▶ **7614** := $(1+1) \times (((1+111) \times (1+11 \times (1+1+1))) - 1)$
:= $2 + (22 \times (((2^{2+2} + 2)^2) + 22))$
:= $3 \times ((3 \times 33 \times 33) - 3^{3+3})$
:= $44 + ((44 \times (4 \times 44 - 4)) + (4 + 4)/4)$
:= $(5 \times (5 \times (5 \times (55 + 5) + 5))) - 55/5$
:= $6 + (((6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6)) + 6) + 6)$
:= $((7 + 7)/7 + 7) \times ((77 \times 77 - 7)/7)$
:= $(8 \times (888 + 8 \times 8)) - (8 + 8)/8$
:= $9 \times ((9 \times 9 \times 9 + 99 + 9) + 9)$
- ▶ **7615** := $((1+1) \times ((1+111) \times (1+11 \times (1+1+1)))) - 1$
:= $2 + (((2 \times 2 \times 22 - 2/2)^2) + 2 \times 22)$
:= $3^3 + (((3 \times (3 + 3)) + 3/3)^3) + 3^{3+3}$
:= $4 + ((44 - 4/4) \times (4 \times 44 + 4/4))$
:= $(5 \times (5 \times (5 \times (55 + 5) + 5))) - 5 - 5$
:= $66 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - (66/6))$
:= $77 + ((7 \times 77 \times (7+7)) - (7/7 + 7))$
:= $(8 \times (888 + 8 \times 8)) - 8/8$
:= $9/9 + (9 \times ((9 \times 9 \times 9 + 99 + 9) + 9))$
- ▶ **7616** := $(1+1) \times ((1+111) \times (1+11 \times (1+1+1)))$
:= $2^{2+2} \times (22^2 - 2 \times (2+2))$
:= $(3/3 + 3 + 3) \times (33 \times 33 - 3/3)$
:= $4 \times (4 \times (444 + 4 \times (4 + 4)))$
:= $(5/5 + 5)^5 - (5 \times ((5+5)/5)^5)$
:= $(666 + 6)/6 \times (((6+6)/6) + 66)$
:= $77 + ((7 \times 77 \times (7+7)) - 7)$
:= $8 \times (888 + 8 \times 8)$
:= $(9 - (9+9)/9) \times ((99 \times 99 - 9)/9)$
- ▶ **7617** := $1 + ((1+1) \times ((1+111) \times (1+11 \times (1+1+1))))$
:= $2/2 + (2^{2+2} \times (22^2 - 2 \times (2+2)))$
:= $3 + (3 \times ((3 \times 33 \times 33) - 3^{3+3}))$
:= $4/4 + (4 \times (4 \times (444 + 4 \times (4 + 4))))$
:= $5/5 + ((5/5 + 5)^5 - (5 \times ((5+5)/5)^5))$
:= $6 + (((66 - 6/6) \times (666/6 + 6)) + 6)$
:= $7/7 + (((7 \times 77 \times (7+7)) - 7) + 77)$
:= $8/8 + (8 \times (888 + 8 \times 8))$
:= $((9/9 + 9 \times 9) \times ((99 + 9)/9 + 9 \times 9)) - 9$

- ▶ **7618** := $(1+1) \times (1 + ((1+111) \times (1+11 \times (1+1+1))))$
:= $222 + ((2 \times 2 \times 22 - 2)^2)$
:= $(3^3 - 3/3) \times (3 \times 3 \times 33 - 3/3 - 3)$
:= $(4+4)/4 + (4 \times (4 \times (444 + 4 \times (4+4))))$
:= $(5 \times (5 \times (5 \times (55+5) + 5))) - ((5+5)/5 + 5)$
:= $((6+6)/6)^6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6)$
:= $77 + (((7 \times 77 \times (7+7)) - 7) + ((7+7)/7))$
:= $(8+8)/8 + (8 \times (888 + 8 \times 8))$
:= $9 \times 9 \times 9 + (((9+9)/9) + 9 \times 9)^{(9+9)/9}$
- ▶ **7623** := $11 \times (11 \times ((1+1+1) \times (11 + (11-1))))$
:= $(2 \times 2 \times 22)^2 - (22/2)^2$
:= $33 \times (33 \times (3+3) + 33)$
:= $44/4 \times (44/4 \times ((4^4 - 4)/4))$
:= $(5 \times (5 \times (5 \times (55+5) + 5))) - (5+5)/5$
:= $66/6 \times (((6 \times 6/(6+6))^6) - 6 \times 6)$
:= $77 + (7 \times 77 \times (7+7))$
:= $8 + ((8 \times (888 + 8 \times 8)) - 8/8)$
:= $9 + (9 \times ((9 \times 9 \times 9 + 99 + 9) + 9))$
- ▶ **7628** := $1 + (1 + ((1+1+1) \times (1 + (11 \times (11 \times (11 + (11-1)))))))$
:= $2 + (((22/2)^2 + 2) \times (2^{2+2+2} - 2))$
:= $3 + (((3/3 + 3)^3) - 3) \times (3 - 3/3 + 3)^3$
:= $((4 \times (4+4) + 4) \times (4^4 - 44)) - 4$
:= $5 + ((5 \times (5 \times (5 \times (55+5) + 5))) - ((5+5)/5))$
:= $66 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) + ((6+6)/6))$
:= $7 + (((7 \times 77 \times (7+7)) - ((7+7)/7)) + 77)$
:= $((88+8)/8) + (8 \times (888 + 8 \times 8))$
:= $9 \times 9 \times (99+9) - (9999/9 + 9)$
- ▶ **7619** := $1 + ((1+1) \times (1 + ((1+111) \times (1+11 \times (1+1+1))))$
:= $2/2 + (((2 \times 2 \times 22 - 2)^2) + 222)$
:= $3 + ((3/3 + 3 + 3) \times (33 \times 33 - 3/3))$
:= $4 + (((44 - 4/4) \times (4 \times 44 + 4/4)) + 4)$
:= $(5 \times (5 \times (5 \times (55+5) + 5))) - (5/5 + 5)$
:= $66 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - (6/6 + 6))$
:= $7 \times 777 + (((7+7+7)/7)^7 - 7)$
:= $88/8 + ((8 \times (888 + 8 \times 8)) - 8)$
:= $9 \times 9 \times 99 - ((99/9 + 9)^{(9+9)/9})$
- ▶ **7624** := $1 + (11 \times (11 \times ((1+1+1) \times (11 + (11-1))))$
:= $2 \times ((2 \times 22 - 2)^2 + 2^{22/2})$
:= $3/3 + (33 \times (33 \times (3+3) + 33))$
:= $4 + ((4 \times (4 \times (444 + 4 \times (4+4)))) + 4)$
:= $(5 \times (5 \times (5 \times (55+5) + 5))) - 5/5$
:= $((6+6)/6)^6 + (6 \times (6 \times (6 \times 6 \times 6 - 6)))$
:= $7/7 + ((7 \times 77 \times (7+7)) + 77)$
:= $8 + (8 \times (888 + 8 \times 8))$
:= $9 + ((9 \times ((9 \times 9 \times 9 + 99 + 9) + 9)) + 9/9)$
- ▶ **7629** := $(1+1+1) \times (1 + (1 + (11 \times (11 \times (11 + (11-1))))))$
:= $(2 \times 2 \times 22)^2 - (222/2 + 2 + 2)$
:= $3 + ((33 \times (33 \times (3+3) + 33)) + 3)$
:= $44 + (((4 - 4/4)^{4+4}) + 4 \times 4^4)$
:= $5 + ((5 \times (5 \times (5 \times (55+5) + 5))) - 5/5)$
:= $(6^{6-6/6}) - (666/6 + 6 \times 6)$
:= $7 + (((7 \times 77 \times (7+7)) - 7/7) + 77)$
:= $88 \times 88 - (((88/8 + 88) + 8) + 8)$
:= $999 + (9 \times (9 \times 9 \times 9 + 9) - (99 + 9)/9)$
- ▶ **7620** := $111 + (((11 \times (1+1)^{11}) - 1)/(1+1+1))$
:= $2 + (((2 \times 2 \times 22 - 2)^2) + 222)$
:= $(3^3 + 3) \times ((3^{3+3} + 33)/3)$
:= $4 + (4 \times (4 \times (444 + 4 \times (4+4))))$
:= $(5 \times (5 \times (5 \times (55+5) + 5))) - 5$
:= $66 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6)$
:= $7 + (((7 \times (77 \times (7+7) + 7)) + (77/7)) + 7)$
:= $8 \times 8/(8+8) + (8 \times (888 + 8 \times 8))$
:= $(9/9 + 9) \times ((99/(9+9+9)/9) + 9 \times 9 \times 9)$
- ▶ **7625** := $1 + (1 + (11 \times (11 \times ((1+1+1) \times (11 + (11-1))))))$
:= $2 + ((2 \times 2 \times 22)^2 - (22/2)^2)$
:= $((3/3 + 3)^3) - 3) \times (3 - 3/3 + 3)^3$
:= $44 + (((4 - 4/4)^{4+4}) - 4) + 4 \times 4^4$
:= $5 \times (5 \times (5 \times (55+5) + 5))$
:= $66 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6/6)$
:= $77 + ((7 \times 77 \times (7+7)) + ((7+7)/7))$
:= $8 + ((8 \times (888 + 8 \times 8)) + 8/8)$
:= $9 + ((9 - (9+9)/9) \times ((99 \times 99 - 9)/9))$
- ▶ **7630** := $(111 - 1 - 1) \times ((11 - 1 - 1)^{1+1} - 11)$
:= $2222 + (2 \times (2 \times (22 + 2 + 2))^2)$
:= $(3/3 + 3 + 3) \times (33 \times 33 + 3/3)$
:= $(4^4 - 4 - 4)/4 + (44 \times (4 \times 44 - 4))$
:= $5 + (5 \times (5 \times (5 \times (55+5) + 5)))$
:= $(6 \times 6 - 6/6) \times (6 \times 6 \times 6 + (6+6)/6)$
:= $7 + ((7 \times 77 \times (7+7)) + 77)$
:= $8 + (((8 \times (888 + 8 \times 8)) - ((8+8)/8)) + 8)$
:= $(9 - (9+9)/9) \times ((99 \times 99 + 9)/9)$
- ▶ **7621** := $1 + (111 + (((11 \times (1+1)^{11}) - 1)/(1+1+1)))$
:= $(2 \times 2 \times 22)^2 - ((22/2)^2 + 2)$
:= $3/3 + ((3^3 + 3) \times ((3^{3+3} + 33)/3))$
:= $4 + ((4 \times (4 \times (444 + 4 \times (4+4)))) + 4/4)$
:= $(5/5 + 5)^5 - (5 \times (5 \times 5 + 5) + 5)$
:= $66 + (((6 \times (6 \times (6 \times 6 \times 6 - 6))) - 6) + 6/6)$
:= $77 + ((7 \times 77 \times (7+7)) - ((7+7)/7))$
:= $8 + (((8 \times (888 + 8 \times 8)) - (88/8)) + 8)$
:= $((9 - (9+9)/9) \times ((99 \times 99 + 9)/9)) - 9$
- ▶ **7626** := $(1+1+1) \times (1 + (11 \times (11 \times (11 + (11-1))))$
:= $((22/2)^2 + 2) \times (2^{2+2+2} - 2)$
:= $3 + (33 \times (33 \times (3+3) + 33))$
:= $(4 \times (4+4) - 4/4) \times ((4 - 44)/4 + 4^4)$
:= $(5/5 + 5)^5 - 5 \times (5 \times 5 + 5)$
:= $66 + (6 \times (6 \times (6 \times 6 \times 6 - 6)))$
:= $7 \times 777 + ((7+7+7)/7)^7$
:= $8 + ((8 \times (888 + 8 \times 8)) + ((8+8)/8))$
:= $(9/9 + 9 \times 9) \times ((99 + 9)/9 + 9 \times 9)$
- ▶ **7631** := $(1+1+11) \times (11 + (((1+1) \times (1+11))^{1+1}))$
:= $(2 \times 2 \times 22)^2 - (222/2 + 2)$
:= $((3 \times 3 + 3) \times ((3 \times ((3+3)^3 - 3)) - 3)) - 3/3$
:= $((4^4 - 4)/4) + (44 \times (4 \times 44 - 4))$
:= $5 + ((5/5 + 5)^5 - 5 \times (5 \times 5 + 5))$
:= $(6^{6-6/6}) - ((6+6) \times (6+6) + 6/6)$
:= $7 + (((7 \times 77 \times (7+7)) + 77) + 7/7)$
:= $8 + (((8 \times (888 + 8 \times 8)) - 8/8) + 8)$
:= $((9+9)/9)^9 + (99 \times (9 \times 9 - 9) - 9)$
- ▶ **7622** := $(11 \times (11 \times ((1+1+1) \times (11 + (11-1)))) - 1$
:= $2 + (((2 \times 2 \times 22 - 2)^2) + 222) + 2$
:= $(33 \times (33 \times (3+3) + 33)) - 3/3$
:= $(4 \times 44 \times 44) - (444 + 44)/4$
:= $5/5 + ((5/5 + 5)^5 - (5 \times (5 \times 5 + 5) + 5))$
:= $6 + ((666 + 6)/6 \times (((6+6)/6) + 66))$
:= $77 + ((7 \times 77 \times (7+7)) - 7/7)$
:= $8 + ((8 \times (888 + 8 \times 8)) - ((8+8)/8))$
:= $9 + ((9 \times ((9 \times 9 \times 9 + 99 + 9) + 9)) - 9/9)$
- ▶ **7627** := $1 + ((1+1+1) \times (1 + (11 \times (11 \times (11 + (11-1))))))$
:= $2 + (((2 \times 2 \times 22)^2 - (22/2)^2) + 2)$
:= $3 + ((33 \times (33 \times (3+3) + 33)) + 3/3)$
:= $4 + (44/4 \times (44/4 \times ((4^4 - 4)/4)))$
:= $5/5 + ((5/5 + 5)^5 - 5 \times (5 \times 5 + 5))$
:= $66 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) + 6/6)$
:= $7/7 + (((7+7+7)/7)^7 + 7 \times 777)$
:= $88/8 + (8 \times (888 + 8 \times 8))$
:= $((9+9)/9 + 9 \times 9) \times ((99/9) + 9 \times 9) - 9$
- ▶ **7632** := $(1+11) \times (11 + (1 + (1+1) \times (1+11))^{1+1})$
:= $(22 + 2) \times ((2^{2+2} \times (22 - 2)) - 2)$
:= $(3 \times 3 + 3) \times ((3 \times ((3+3)^3 - 3)) - 3)$
:= $(4 \times (4+4) + 4) \times (4^4 - 44)$
:= $((55+5)/5) \times ((55+5^5)/5)$
:= $6 \times (((6 \times (6 \times 6 \times 6 - 6)) + 6) + 6)$
:= $((7+7)/7 + 7) \times ((77 \times 77 + 7)/7)$
:= $8 + ((8 \times (888 + 8 \times 8)) + 8)$
:= $99 + 9 \times (9 \times 9 \times 9 + 99 + 9)$

$$\blacktriangleright 7633 := ((11 \times (1+1)^{1+1+1})^{1+1}) - 111$$

$$:= (2 \times 2 \times 22)^2 - 222/2$$

$$:= 3 + ((3/3 + 3 + 3) \times (33 \times 33 + 3/3))$$

$$:= (4 \times 44 \times 44) - 444/4$$

$$:= 5/5 + (((55 + 5)/5) \times ((55 + 5^5)/5))$$

$$:= 6/6 + (6 \times (((6 \times (6 \times 6 \times 6 - 6)) + 6) + 6))$$

$$:= ((7 + 7) \times (7 \times 77 + 7)) - 77/7$$

$$:= 88 \times 88 - 888/8$$

$$:= 9/9 + (9 \times (9 \times 9 \times 9 + 99 + 9) + 99)$$

$$\blacktriangleright 7638 := 1 + (1 + ((1 + (11 + 11)) \times ((1 + 1 + 1) \times 111 - 1)))$$

$$:= 22^2/2 + ((2 \times 2 \times 22 - 2)^2)$$

$$:= 3 + (((33 + 3) \times ((3 + 3)^3 - 3)) - 33)$$

$$:= 4 + (((4 - 444)/4) + (4 \times 44 \times 44))$$

$$:= (5/5 + 5)^5 - ((5 \times 5 \times 55 + 5)/(5 + 5))$$

$$:= 6 + (6 \times (((6 \times (6 \times 6 \times 6 - 6)) + 6) + 6))$$

$$:= 7/7 + (((7 + 7) \times (7 \times 77 + 7)) - 7)$$

$$:= 88 \times 88 + ((8 - 88)/8 - (88 + 8))$$

$$:= 9 \times 9 \times (99 + 9) + ((9 - 9999)/9)$$

$$\blacktriangleright 7643 := (11 \times (1+1)^{11}) - (1 + ((1 + 11^{1+1})^{1+1}))$$

$$:= (2 \times 2 \times 22)^2 - (2222/22)$$

$$:= 3 + ((33 \times (3 + 3)^3) + ((3 - 3/3)^{3 \times 3}))$$

$$:= 44/4 + ((4 \times (4 + 4) + 4) \times (4^4 - 44))$$

$$:= 5 + ((5/5 + 5)^5 - ((5 \times 5 \times 55 + 5)/(5 + 5)))$$

$$:= (6^{6-6/6}) - (66 + 6/6 + 66)$$

$$:= ((7 + 7) \times (7 \times 77 + 7)) - 7/7$$

$$:= 88 \times 88 - (8888/88)$$

$$:= 99 + ((9/9 + 9 \times 9) \times ((99/9) + 9 \times 9))$$

$$\blacktriangleright 7634 := 11 \times (11 + ((1 + (1 + 1)^{11})/(1 + 1 + 1)))$$

$$:= ((2 - 222)/2) + (2 \times 2 \times 22)^2$$

$$:= 33/3 + (33 \times (33 \times (3 + 3) + 33))$$

$$:= ((4 - 444)/4) + (4 \times 44 \times 44)$$

$$:= 5 + (((5 \times (5 \times (5 \times (55 + 5) + 5))) - 5/5) + 5)$$

$$:= (6 + 6)/6 + (6 \times (((6 \times (6 \times 6 \times 6 - 6)) + 6) + 6))$$

$$:= 77 + ((7 \times 77 \times (7 + 7)) + (77/7))$$

$$:= 88 \times 88 + ((8 - 888)/8)$$

$$:= 99/9 \times ((99 \times (9 - (9 + 9)/9)) + 9/9)$$

$$\blacktriangleright 7639 := 1 + (1 + (1 + ((1 + (11 + 11)) \times ((1 + 1 + 1) \times 111 - 1)))) \blacktriangleright 7644 := (11 + (11 - 1)) \times (1 + (11 \times (11 \times (1 + 1 + 1))))$$

$$:= (22^2 + 2)/2 + ((2 \times 2 \times 22 - 2)^2)$$

$$:= 3 + ((3^3 - 3/3 - 3) \times (333 - 3/3))$$

$$:= ((44 - 4) \times (4^4 - (4^4 + 4)/4)) - 4/4$$

$$:= (5/5 + 5)^5 + ((5 - 5 \times 5 \times 55)/(5 + 5))$$

$$:= 6 + ((6 \times (((6 \times (6 \times 6 \times 6 - 6)) + 6) + 6)) + 6/6)$$

$$:= (7 + 7)/7 + (((7 + 7) \times (7 \times 77 + 7)) - 7)$$

$$:= 88 \times 88 - (((8/8 + 88) + 8) + 8)$$

$$:= 9 + ((9 - (9 + 9)/9) \times ((99 \times 99 + 9)/9))$$

$$:= 2 \times ((2^{2+2+2} - 2)^2 - 22)$$

$$:= (3/3 + 3 + 3) \times (33 \times 33 + 3)$$

$$:= (4 + 4)^4 + ((4 + 4) \times 444 - 4)$$

$$:= ((55 + 5)/5) \times ((55 + 5^5 + 5)/5)$$

$$:= (6^{6-6/6}) - (66 + 66)$$

$$:= (7 + 7) \times (7 \times 77 + 7)$$

$$:= 88 \times 88 + ((88 - 888)/8)$$

$$:= (99 - 9/9) \times (9 \times 9 - ((9 + 9)/9))$$

$$\blacktriangleright 7635 := 1 + (11 \times (11 + ((1 + (1 + 1)^{11})/(1 + 1 + 1))))$$

$$:= 2 + ((2 \times 2 \times 22)^2 - 222/2)$$

$$:= ((33 + 3) \times ((3 + 3)^3 - 3)) - 33$$

$$:= 4 + ((44 \times (4 \times 44 - 4)) + ((4^4 - 4)/4))$$

$$:= 5 + ((5 \times (5 \times (5 \times (55 + 5) + 5))) + 5)$$

$$:= 6 + ((6^{6-6/6}) - (666/6 + 6 \times 6))$$

$$:= 7777 - (((7 + 7)/7)^7 + 7) + 7$$

$$:= 8 + ((8 \times (888 + 8 \times 8)) + (88/8))$$

$$:= 9 + ((9/9 + 9 \times 9) \times ((99 + 9)/9 + 9 \times 9))$$

$$\blacktriangleright 7640 := (1 + 1) \times (1 + (11 + ((1 + 111) \times (1 + 11 \times (1 + 1 + 1)))) \blacktriangleright 7645 := 11 \times (1 + (11 + ((1 + (1 + 1)^{11})/(1 + 1 + 1))))$$

$$:= 2 \times (2 \times ((2 \times 22)^2 - (22 + 2 + 2)))$$

$$:= (33 \times (3 + 3)^3) + ((3 - 3/3)^{3 \times 3})$$

$$:= (44 - 4) \times (4^4 - (4^4 + 4)/4)$$

$$:= 5 + (((5 \times (5 \times (5 \times (55 + 5) + 5))) + 5) + 5)$$

$$:= (6^{6-6/6}) - (((6 + 6)/6)^6 + 66) + 6$$

$$:= 7 + (((7 + 7) \times (7 \times 77 + 7)) - (77/7))$$

$$:= 88 \times 88 - (88 + 8 + 8)$$

$$:= (((9 + 9)/9)^9) + 99 \times (9 \times 9 - 9)$$

$$:= 22 + ((2 \times 2 \times 22)^2 - (22/2)^2)$$

$$:= 33/3 \times (3^{3+3} - (3/3 + 33))$$

$$:= 44 + (((4 - 4/4)^{4+4}) + 4 \times (4^4 + 4))$$

$$:= 55 \times (5 \times (5 \times 5 + 5) - (55/5))$$

$$:= 6/6 + (((6^{6-6/6}) - (66 + 66))$$

$$:= 7/7 + ((7 + 7) \times (7 \times 77 + 7))$$

$$:= 88/8 \times (8 \times 88 - (8/8 + 8))$$

$$:= ((99 - (99/9))^{(9+9)/9}) - 99$$

$$\blacktriangleright 7636 := (1 + (11 + 11)) \times ((1 + 1 + 1) \times 111 - 1)$$

$$:= 2 + (((2 - 222)/2) + (2 \times 2 \times 22)^2)$$

$$:= (3^3 - 3/3 - 3) \times (333 - 3/3)$$

$$:= 4 + ((4 \times (4 + 4) + 4) \times (4^4 - 44))$$

$$:= 5 + (((5/5 + 5)^5 - 5 \times (5 \times 5 + 5)) + 5)$$

$$:= 6 + ((6 \times 6 - 6/6) \times (6 \times 6 \times 6 + (6 + 6)/6))$$

$$:= ((7 + 7) \times (7 \times 77 + 7)) - (7/7 + 7)$$

$$:= 8 + ((8 \times (888 + 8 \times 8)) + ((88 + 8)/8))$$

$$:= (((9 + 9)/9) + 9 \times 9) \times ((99/9) + 9 \times 9)$$

$$\blacktriangleright 7641 := 11 + ((111 - 1 - 1) \times ((11 - 1 - 1)^{1+1} - 11))$$

$$:= (2 \times (2 \times ((2 \times 22)^2 + 2))) - 222/2$$

$$:= 3 \times ((33 \times (3 \times 3^3 - 3)) - 3^3)$$

$$:= 4 + (((4 \times 44 \times 44) - 444/4) + 4)$$

$$:= (5/5 + 5)^5 - ((5 \times 5 \times 5 + 5) + 5)$$

$$:= 6 \times 6 + (((66 - 6/6) \times (666/6 + 6))$$

$$:= ((7 + 7) \times (7 \times 77 + 7)) - (7 + 7 + 7)/7$$

$$:= 8 + (88 \times 88 - 888/8)$$

$$:= 999 + 9 \times (9 \times 9 \times 9 + 9)$$

$$\blacktriangleright 7646 := 1 + (11 \times (1 + (11 + ((1 + (1 + 1)^{11})/(1 + 1 + 1))))$$

$$:= 2 + (2 \times ((2^{2+2+2} - 2)^2 - 22))$$

$$:= 3 + (((33 \times (3 + 3)^3) + ((3 - 3/3)^{3 \times 3})) + 3)$$

$$:= (4 + 4)^4 + ((4 + 4) \times 444 - (4 + 4)/4)$$

$$:= (5/5 + 5)^5 - (5 \times 5 \times 5 + 5)$$

$$:= (6^{6-6/6}) - (((6 + 6)/6)^6 + 66)$$

$$:= (7 + 7)/7 + ((7 + 7) \times (7 \times 77 + 7))$$

$$:= 88 \times 88 + ((8 - 88)/8 - 88)$$

$$:= 9 + (9 \times 9 \times (99 + 9) - 9999/9)$$

$$\blacktriangleright 7637 := 1 + ((1 + (11 + 11)) \times ((1 + 1 + 1) \times 111 - 1))$$

$$:= 2 + (((2 \times 2 \times 22)^2 - 222/2) + 2)$$

$$:= (3/3 + 3 + 3) \times ((33 \times 33 - 3/3) + 3)$$

$$:= 4 + ((4 \times 44 \times 44) - 444/4)$$

$$:= 5 + (((55 + 5)/5) \times ((55 + 5^5)/5))$$

$$:= 6 + ((6^{6-6/6}) - ((6 + 6) \times (6 + 6) + 6/6))$$

$$:= ((7 + 7) \times (7 \times 77 + 7)) - 7$$

$$:= 88 \times 88 - ((88/8 + 88) + 8)$$

$$:= 9 \times 9 \times (99 + 9) - 9999/9$$

$$\blacktriangleright 7642 := ((1 + 1)^{1+1+1+1}) - ((1111 - 11)/(1 + 1))$$

$$:= (2 \times ((2^{2+2+2} - 2)^2 - 22)) - 2$$

$$:= 3/3 + (3 \times ((33 \times (3 \times 3^3 - 3)) - 3^3))$$

$$:= 4 + (((4 - 444)/4) + (4 \times 44 \times 44)) + 4$$

$$:= 5 + (((55 + 5)/5) \times ((55 + 5^5)/5) + 5)$$

$$:= (6^{6-6/6}) - (((6 + 6)/6)^{6/6+6}) + 6$$

$$:= 7777 - (((7 + 7)/7)^7 + 7)$$

$$:= 8 + (((8 - 888)/8) + 88 \times 88)$$

$$:= 9/9 + (9 \times (9 \times 9 \times 9 + 9) + 999)$$

$$\blacktriangleright 7647 := 11 + ((1 + (11 + 11)) \times ((1 + 1 + 1) \times 111 - 1))$$

$$:= (2 \times (2 \times ((2 \times 22)^2 - (22 + 2)))) - 2/2$$

$$:= 3 + ((3/3 + 3 + 3) \times (33 \times 33 + 3))$$

$$:= (4 + 4)^4 + ((4 + 4) \times 444 - 4/4)$$

$$:= 5/5 + ((5/5 + 5)^5 - (5 \times 5 \times 5 + 5))$$

$$:= (6^{6-6/6}) - (((666/6 + 6) + 6) + 6)$$

$$:= (7 + 7 + 7)/7 + ((7 + 7) \times (7 \times 77 + 7))$$

$$:= 88 \times 88 - ((8/8 + 88) + 8)$$

$$:= 9 + (((9 - 9999)/9) + 9 \times 9 \times (99 + 9))$$

$$\begin{aligned}
\blacktriangleright 7648 &:= ((1+1+1) \times (111 \times (1+(11+11)))) - 11 \\
&:= 2 \times (2 \times ((2 \times 22)^2 - (22+2))) \\
&:= (33-3/3) \times (((3^{3+3}-3)/3)-3) \\
&:= (4+4) \times ((4 \times (4^4-4 \times 4)) - 4) \\
&:= (5+5)/5 + ((5/5+5)^5 - (5 \times 5 \times 5+5)) \\
&:= (6^{6-6/6}) - (((6+6)/6)^{6/6+6}) \\
&:= 77/7 + (((7+7) \times (7 \times 77+7)) - 7) \\
&:= 88 \times 88 - (88+8) \\
&:= 9 \times 9 \times 9 + 9 + ((99 \times 99 - (9+9))/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7649 &:= 1 + (((1+1+1) \times (111 \times (1+(11+11)))) - 11) \\
&:= 2/2 + (2 \times (2 \times ((2 \times 22)^2 - (22+2)))) \\
&:= 33 \times 33 + ((3 \times 3 \times 3^{3+3}) - 3/3) \\
&:= 4/4 + ((4+4) \times 444 + (4+4)^4) \\
&:= (5/5+5)^5 - (5 \times 5 \times 5 + ((5+5)/5)) \\
&:= 6 + ((6^{6-6/6}) - (66+6/6+66)) \\
&:= 7777 - ((7+7)/7)^7 \\
&:= 8/8 + (88 \times 88 - (88+8)) \\
&:= 9 + (99 \times (9 \times 9 - 9) + ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7650 &:= (1+11 \times (1+1+1)) \times (1 + ((1+1) \times (1+11))) \\
&:= 2 + (2 \times (2 \times ((2 \times 22)^2 - (22+2)))) \\
&:= (3+3) \times (((3+3) \times ((3+3)^3 - 3)) - 3) \\
&:= (4^4 - 4/4) \times (4 \times (4+4) - (4+4)/4) \\
&:= 5 \times ((5 \times (5 \times (55+5) + 5)) + 5) \\
&:= 6 + ((6^{6-6/6}) - (66+66)) \\
&:= 7 + (((7+7) \times (7 \times 77+7)) - 7/7) \\
&:= (8+8)/8 + (88 \times 88 - (88+8)) \\
&:= 9 + (9 \times (9 \times 9 \times 9 + 9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7651 &:= 1 + ((1+11 \times (1+1+1)) \times (1 + ((1+1) \times (1+11)))) \\
&:= (2 \times ((2 \times ((2 \times 22)^2 - 22)) - 2)) - 2/2 \\
&:= 3 + ((33-3/3) \times (((3^{3+3}-3)/3)-3)) \\
&:= 4 + (((4+4) \times 444 - 4/4) + (4+4)^4) \\
&:= (5/5+5)^5 - 5 \times 5 \times 5 \\
&:= 6 + (((6^{6-6/6}) - (66+66)) + 6/6) \\
&:= 7 + ((7+7) \times (7 \times 77+7)) \\
&:= 8 + (88 \times 88 - (8888/88)) \\
&:= 9 \times 9 \times 9 + 9 + ((99 \times 99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7652 &:= ((1+1+1) \times (((1+1) \times 11^{1+1+1}) - 11)) - 1 \\
&:= 2 \times (2 \times ((2 \times 22)^2 - 22)) - 2 \\
&:= ((3+3) \times (33/3)^3) - (333+3/3) \\
&:= 4 + ((4+4) \times 444 + (4+4)^4) \\
&:= 5/5 + ((5/5+5)^5 - 5 \times 5 \times 5) \\
&:= 6 + ((6^{6-6/6}) - (((6+6)/6)^6 + 66)) \\
&:= 7 + (((7+7) \times (7 \times 77+7)) + 7/7) \\
&:= 88 \times 88 - (8 \times 8/(8+8) + 88) \\
&:= 99/9 + (9 \times (9 \times 9 \times 9 + 9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7653 &:= (1+1+1) \times (((1+1) \times 11^{1+1+1}) - 11) \\
&:= 2/2 + (2 \times (2 \times ((2 \times 22)^2 - 22)) - 2) \\
&:= ((3+3) \times (33/3)^3) - 333 \\
&:= 4 + (((4+4) \times 444 + (4+4)^4) + 4/4) \\
&:= (5+5)/5 + ((5/5+5)^5 - 5 \times 5 \times 5) \\
&:= (6^{6-6/6}) - (((666+6+6) + 6) \\
&:= 7 + (((7+7) \times (7 \times 77+7)) + ((7+7)/7)) \\
&:= 8 + (88/8 \times (8 \times 88 - (8/8+8))) \\
&:= 9 + ((99-9/9) \times (9 \times 9 - ((9+9+9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7654 &:= 1 + ((1+1+1) \times (((1+1) \times 11^{1+1+1}) - 11)) \\
&:= (2 \times (2 \times ((2 \times 22)^2 - 22))) - 2 \\
&:= 3/3 + (((3+3) \times (33/3)^3) - 333) \\
&:= (44-4/4) \times (4 \times 44 + (4+4)/4) \\
&:= (5/5+5)^5 - ((555+55)/5) \\
&:= (6^{6-6/6}) - ((666+66)/6) \\
&:= ((77-7)/7) + ((7+7) \times (7 \times 77+7)) \\
&:= (8/8+88) \times (88 - ((8+8)/8)) \\
&:= 9 + (((99-99/9))^{(9+9)/9}) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7655 &:= 11111 - ((1+1) \times ((1+11)^{1+1+1})) \\
&:= (2 \times (2 \times ((2 \times 22)^2 - 22))) - 2/2 \\
&:= (33 \times ((3^{3+3}-33)/3)) - 3/3 \\
&:= (44 \times (4 \times 44 - (4+4)/4)) - 4/4 \\
&:= 5 + (5 \times ((5 \times (5 \times (55+5) + 5)) + 5)) \\
&:= (6^{6-6/6}) - ((66/6) \times (66/6)) \\
&:= 77/7 + ((7+7) \times (7 \times 77+7)) \\
&:= 88 \times 88 - (8/8+88) \\
&:= 9 \times 9 \times 99 + ((9-9 \times 9 \times 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7656 &:= 11 \times ((1+1+1) \times (111+11^{1+1})) \\
&:= 2 \times (2 \times ((2 \times 22)^2 - 22)) \\
&:= 33 \times ((3^{3+3}-33)/3) \\
&:= 44 \times (4 \times 44 - (4+4)/4) \\
&:= 5 + ((5/5+5)^5 - 5 \times 5 \times 5) \\
&:= 66 \times (((666-6)/6) + 6) \\
&:= 7 + (7777 - ((7+7)/7)^7) \\
&:= 88 \times (88 - 8/8) \\
&:= (99+9)/9 \times (9 \times (9 \times 9 - 9) - (9/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7657 &:= 1 + (11 \times ((1+1+1) \times (111+11^{1+1}))) \\
&:= 2/2 + (2 \times (2 \times ((2 \times 22)^2 - 22))) \\
&:= 3/3 + (33 \times ((3^{3+3}-33)/3)) \\
&:= 4/4 + (44 \times (4 \times 44 - (4+4)/4)) \\
&:= 5 + (((5/5+5)^5 - 5 \times 5 \times 5) + 5/5) \\
&:= 6/6 + (66 \times (((666-6)/6) + 6)) \\
&:= 777/7 + (7 \times 77 \times (7+7)) \\
&:= 8/8 + (88 \times (88 - 8/8)) \\
&:= ((99+9) \times (9 \times 9 - (9/9+9))) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7658 &:= ((1+1+1) \times (111 \times (1+(11+11)))) - 1 \\
&:= 2 + (2 \times (2 \times ((2 \times 22)^2 - 22))) \\
&:= (333 \times (3^3 - 3/3 - 3)) - 3/3 \\
&:= 4 + ((44-4/4) \times (4 \times 44 + (4+4)/4)) \\
&:= 5 + (((5/5+5)^5 - 5 \times 5 \times 5) + ((5+5)/5)) \\
&:= (6^{6-6/6}) - (((666+6)/6+6) \\
&:= 7 + (((7+7) \times (7 \times 77+7)) + 7) \\
&:= (8+8)/8 + (88 \times (88 - 8/8)) \\
&:= 9 + ((99 \times (9 \times 9 - 9) + ((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7659 &:= (1+1+1) \times (111 \times (1+(11+11))) \\
&:= 2 + ((2 \times (2 \times ((2 \times 22)^2 - 22))) + 2/2) \\
&:= 333 \times (3^3 - 3/3 - 3) \\
&:= 444/4 \times ((4^4+4)/4+4) \\
&:= (5/5+5)^5 - ((555+5)/5+5) \\
&:= (6^{6-6/6}) - (666/6+6) \\
&:= 7777 - (777/7+7) \\
&:= 88/8 + (88 \times 88 - (88+8)) \\
&:= 99 + (9 \times 9 \times 9 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7660 &:= 1 + ((1+1+1) \times (111 \times (1+(11+11)))) \\
&:= 2 \times ((2 \times ((2 \times 22)^2 - 22)) + 2) \\
&:= (3^3 \times 333) - (33/3)^3 \\
&:= 4 + (44 \times (4 \times 44 - (4+4)/4)) \\
&:= (5/5+5)^5 - (555/5+5) \\
&:= (6^{6-6/6}) + (((6-666)/6) - 6) \\
&:= 7777 + (((7-777)/7) - 7) \\
&:= 88 \times 88 + (8 \times 8/(8+8) - 88) \\
&:= 9 + (((99 \times 99 + 9)/9) + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7661 &:= 1 + (1 + ((1+1+1) \times (111 \times (1+(11+11)))) \\
&:= 2/2 + (2 \times ((2 \times ((2 \times 22)^2 - 22)) + 2)) \\
&:= 3 + ((333 \times (3^3 - 3/3 - 3)) - 3/3) \\
&:= 4 + ((44 \times (4 \times 44 - (4+4)/4)) + 4/4) \\
&:= 5 + (((5/5+5)^5 - 5 \times 5 \times 5) + 5) \\
&:= 6 + (((6^{6-6/6}) - ((66/6) \times (66/6))) \\
&:= 7 + (((7+7) \times (7 \times 77+7)) + ((77-7)/7)) \\
&:= 88 \times 88 - ((88/8+8 \times 8) + 8) \\
&:= 9 \times 9 \times 9 + 9 + ((99/9) \times (9/9+99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7662 &:= (1+1+1) \times (1 + (111 \times (1+(11+11)))) \\
&:= 2 + (2 \times ((2 \times ((2 \times 22)^2 - 22)) + 2)) \\
&:= 3 + (333 \times (3^3 - 3/3 - 3)) \\
&:= (4 \times 44 \times 44) - ((4-4/4)^4 + 4/4) \\
&:= 55/5 + ((5/5+5)^5 - 5 \times 5 \times 5) \\
&:= 6 + (66 \times (((666-6)/6) + 6)) \\
&:= 7 + (((7+7) \times (7 \times 77+7)) + (77/7)) \\
&:= 8 + ((8/8+88) \times (88 - ((8+8)/8))) \\
&:= 9 \times 9 \times 9 + 9 + (((9999-9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7663 &:= 1 + ((1 + 1 + 1) \times (1 + (111 \times (1 + (11 + 11)))))) \\
&:= (2 \times 2 \times 22)^2 - (2/2 + 2)^{2+2} \\
&:= 3 + ((3^3 \times 333) - (33/3)^3) \\
&:= (4 \times 44 \times 44) - (4 - 4/4)^4 \\
&:= (5/5 + 5)^5 - (555 + 5 + 5)/5 \\
&:= (6^{6-6/6}) - (((666 + 6) + 6)/6) \\
&:= 7 + ((7777 - ((7 + 7)/7)^7) + 7) \\
&:= 8 + (88 \times 88 - (8/8 + 88)) \\
&:= 9 \times 9 \times 9 \times 9 + (9999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7664 &:= (1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} - (11 \times (1 + 11)))) \\
&:= 2 \times (2 \times (((2 \times 22)^2 - 22) + 2)) \\
&:= ((33/3 + 3 \times 3)^3) - 333 - 3 \\
&:= 4 \times (44 \times 44 - (4 \times 4 + 4)) \\
&:= (5/5 + 5)^5 - (555 + 5)/5 \\
&:= (6^{6-6/6}) - (666 + 6)/6 \\
&:= 7 + ((7 \times 77 \times (7 + 7)) + 777/7) \\
&:= 8 + (88 \times (88 - 8/8)) \\
&:= 9 \times 9 \times 9 \times 9 + ((9999 + 9)/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7665 &:= (1 + 1 + 1) \times (1 + (1 + (111 \times (1 + (11 + 11)))))) \\
&:= 2 + ((2 \times 2 \times 22)^2 - (2/2 + 2)^{2+2}) \\
&:= ((33 + 3) \times ((3 + 3)^3 - 3)) - 3 \\
&:= 4/4 + (4 \times (44 \times 44 - (4 \times 4 + 4))) \\
&:= (5/5 + 5)^5 - 555/5 \\
&:= (6^{6-6/6}) - 666/6 \\
&:= 7 + (((7 + 7) \times (7 \times 77 + 7)) + 7) + 7 \\
&:= 8 + ((88 \times (88 - 8/8)) + 8/8) \\
&:= ((99 + 9) \times (9 \times 9 - 9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7666 &:= (1111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 111 \\
&:= (2 \times (2^{2+2+2} - 2)^2) - 22 \\
&:= 3/3 + (((33 + 3) \times ((3 + 3)^3 - 3)) - 3) \\
&:= (4 + 4)/4 + (4 \times (44 \times 44 - (4 \times 4 + 4))) \\
&:= (5/5 + 5)^5 - (55 + 55) \\
&:= (6^{6-6/6}) + ((6 - 666)/6) \\
&:= 7777 - 777/7 \\
&:= 8 + ((88 \times (88 - 8/8)) + ((8 + 8)/8)) \\
&:= 9 \times (9 \times 9 \times 9 + 9) + (((9 + 9)/9)^{9/9+9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7667 &:= 11 \times (1 + ((1 + 1 + 1) \times (111 + 11^{1+1}))) \\
&:= 2/2 + ((2 \times (2^{2+2+2} - 2)^2) - 22) \\
&:= ((33/3 + 3 \times 3)^3) - 333 \\
&:= 4 + (4 \times 44 \times 44) - (4 - 4/4)^4 \\
&:= 5/5 + ((5/5 + 5)^5 - (55 + 55)) \\
&:= (6^{6-6/6}) + (((6 - 666) + 6)/6) \\
&:= 7777 + ((7 - 777)/7) \\
&:= 88/8 + (88 \times (88 - 8/8)) \\
&:= ((99 + 9) \times (9 \times 9 - (9/9 + 9))) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7668 &:= 1 + (11 \times (1 + ((1 + 1 + 1) \times (111 + 11^{1+1})))) \\
&:= 2 + ((2 \times (2^{2+2+2} - 2)^2) - 22) \\
&:= (33 + 3) \times ((3 + 3)^3 - 3) \\
&:= 4 + (4 \times (44 \times 44 - (4 \times 4 + 4))) \\
&:= 5 + ((5/5 + 5)^5 - (555 + 5 + 5)/5) \\
&:= 6 \times (6 \times 6 \times 6 \times 6 - (6 + 6 + 6)) \\
&:= 7777 + (((7 - 777) + 7)/7) \\
&:= 88 \times 88 + ((88 + 8)/8 - 88) \\
&:= (99 + 9) \times (9 \times 9 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7669 &:= (1 + 1)^{11} + (11 \times ((1 + 1)^{11-1-1} - 1)) \\
&:= (2^{2+2} \times (22^2 - (2 + 2))) - 22/2 \\
&:= 3/3 + ((33 + 3) \times ((3 + 3)^3 - 3)) \\
&:= (4 \times 44 \times 44) - (44 + 4^4)/4 \\
&:= 5 + ((5/5 + 5)^5 - (555 + 5)/5) \\
&:= 6/6 + (6 \times (6 \times 6 \times 6 \times 6 - (6 + 6 + 6))) \\
&:= 7 + (((7 + 7) \times (7 \times 77 + 7)) + (77/7)) + 7 \\
&:= 88 \times 88 - (88/8 + 8 \times 8) \\
&:= 9/9 + ((99 + 9) \times (9 \times 9 - (9/9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7670 &:= 11 + ((1 + 1 + 1) \times (111 \times (1 + (11 + 11)))) \\
&:= (2 \times ((2^{2+2+2} - 2)^2 + 2)) - 22 \\
&:= 3 + (((33/3 + 3 \times 3)^3) - 333) \\
&:= (4 + 4)/4 \times ((4 + 4)^4 - ((4/4 + 4^4) + 4)) \\
&:= 5 + ((5/5 + 5)^5 - 555/5) \\
&:= 6 + ((6^{6-6/6}) - (666 + 6)/6) \\
&:= 7 + (((7777 - ((7 + 7)/7)^7) + 7) + 7) \\
&:= 88 \times 88 + ((8 - 88)/8 - 8 \times 8) \\
&:= (9 + 9)/9 + ((99 + 9) \times (9 \times 9 - (9/9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7671 &:= 1111 + (1 + 1 + 1)^{(1+1)^{1+1+1}} - 1 \\
&:= 2 + ((2^{2+2} \times (22^2 - (2 + 2))) - 22/2) \\
&:= 3 + ((33 + 3) \times ((3 + 3)^3 - 3)) \\
&:= 4 + ((4 \times 44 \times 44) - (4 - 4/4)^4 + 4) \\
&:= 5 + ((5/5 + 5)^5 - (55 + 55)) \\
&:= 6 + ((6^{6-6/6}) - 666/6) \\
&:= 77 + ((7 \times (77 \times (7 + 7) + 7)) - 7/7) \\
&:= 88 \times 88 - ((8/8 + 8 \times 8) + 8) \\
&:= 9 \times 9 \times 9 \times 9 + ((9999 - 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7672 &:= 1111 + (1 + 1 + 1)^{(1+1)^{1+1+1}} \\
&:= 2 \times (2 \times (((2 \times 22)^2 - 22) + 2) + 2) \\
&:= 3 + (((33 + 3) \times ((3 + 3)^3 - 3)) + 3/3) \\
&:= (4 + 4) \times (4 \times 4^4 - (4^4 + 4)/4) \\
&:= (5/5 + 5)^5 + ((5 - 5^5)/(5 \times 5 + 5)) \\
&:= 6 + (((6 - 666)/6) + (6^{6-6/6})) \\
&:= 77 + (7 \times (77 \times (7 + 7) + 7)) \\
&:= 88 \times 88 - (8 \times 8 + 8) \\
&:= 9 \times 9 \times 9 \times 9 + 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7673 &:= 1111 + (1 + 1 + 1)^{(1+1)^{1+1+1}} + 1 \\
&:= (2 \times ((2^{2+2+2} - 2)^2 - 2)) - 22/2 \\
&:= 3 + (((33/3 + 3 \times 3)^3) - 333) + 3 \\
&:= 4 + ((4 \times 44 \times 44) - (44 + 4^4)/4) \\
&:= (5 \times (5 \times (5^5 - 55)/(5 + 5))) - (5 + 5)/5 \\
&:= (6^{6-6/6}) - ((6 \times 6 + 66) + 6/6) \\
&:= 7 + (7777 - 777/7) \\
&:= 8/8 + (88 \times 88 - (8 \times 8 + 8)) \\
&:= 9 \times 9 \times 9 \times 9 + (9999 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7674 &:= 1111 + (1 + 1 + 1)^{(1+1)^{1+1+1}} + 1 + 1 \\
&:= 2 + (2 \times (2 \times (((2 \times 22)^2 - 22) + 2) + 2)) \\
&:= 3 + (((33 + 3) \times ((3 + 3)^3 - 3)) + 3) \\
&:= (4 + 4)/4 \times (((4 + 4)^4 - (4^4 + 4)) + 4/4) \\
&:= (5 \times (5 \times (5^5 - 55)/(5 + 5))) - 5/5 \\
&:= (6^{6-6/6}) - (6 \times 6 + 66) \\
&:= ((7 + 7)/7)^7 + (7 \times 77 \times (7 + 7)) \\
&:= (8 + 8)/8 + (88 \times 88 - (8 \times 8 + 8)) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7675 &:= 111 + (((1 + (1 + 11^{1+1}))^{1+1}) - 1)/(1 + 1) \\
&:= (2 \times (2^{2+2+2} - 2)^2) - (22/2 + 2) \\
&:= 3 + (((33 + 3) \times ((3 + 3)^3 - 3)) + 3/3) + 3 \\
&:= (4 \times 44 \times 44) - ((4^4 + 4)/4 + 4) \\
&:= 5 \times (5 \times (5^5 - 55)/(5 + 5)) \\
&:= 6/6 + ((6^{6-6/6}) - (6 \times 6 + 66)) \\
&:= (7 \times (777 + 7)) + ((7 + 7 + 7)/7)^7 \\
&:= 8 + ((88 \times (88 - 8/8)) + (88/8)) \\
&:= ((99 + 9) \times (9 \times 9 - 9)) - ((9 + 9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7676 &:= 111 + ((1 + ((1 + (1 + 11^{1+1}))^{1+1}))/ (1 + 1)) \\
&:= 2 \times ((2^{2+2+2} - 2)^2 - (2 + 2 + 2)) \\
&:= 3 \times 3 + (((33/3 + 3 \times 3)^3) - 333) \\
&:= (4 \times ((4 + 4) \times (4^4 - 4 \times 4))) - 4 \\
&:= (5 \times (5 - 5 \times 5)) + (5/5 + 5)^5 \\
&:= (6^{6-6/6}) + ((66 - 666)/6) \\
&:= (77 - 7/7) \times (7777/77) \\
&:= 88 \times 88 - (8 \times 8/(8 + 8) + 8 \times 8) \\
&:= ((99 + 9) \times (9 \times 9 - 9)) - (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7677 &:= (((1 + (1 + (1 + 11^{1+1})))^{1+1}) / (1 + 1)) - 11 \\
&:= (2 \times (2^{2+2+2} - 2)^2) - 22/2 \\
&:= 3 \times (((3 \times 3 + 3) \times ((3 + 3)^3 - 3)) + 3) \\
&:= 4/4 + ((4 \times ((4 + 4) \times (4^4 - 4 \times 4))) - 4) \\
&:= 5/5 + ((5 \times (5 - 5 \times 5)) + (5/5 + 5)^5) \\
&:= 6 + (((6^{6-6/6}) - 666/6) + 6) \\
&:= 7777 + ((77 - 777)/7) \\
&:= 8 + (88 \times 88 - (88/8 + 8 \times 8)) \\
&:= ((99 + 9) \times (9 \times 9 - 9)) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7678 &:= 11 \times (((1+1+1) \times (11+(1+1) \times 111)) - 1) \\
&:= (2^{2+2} \times (22^2 - (2+2))) - 2 \\
&:= 3 \times 3 + (((33+3) \times ((3+3)^3 - 3)) + 3/3) \\
&:= (4+4)/4 \times ((4+4)^4 - (4/4+4^4)) \\
&:= (5+5)/5 + ((5 \times (5-5 \times 5)) + (5/5+5)^5) \\
&:= 6 + (((6-666)/6) + (6^{6-6/6})) + 6 \\
&:= 7777 - (7 \times (7+7) + 7/7) \\
&:= 88 \times 88 - (((8+8)/8) + 8 \times 8) \\
&:= 9/9 + (((99+9) \times (9 \times 9 - 9)) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7679 &:= (1+1)^{11} + ((11 \times (1+1))^{11-1-1}) - 1 \\
&:= (2^{2+2} \times (22^2 - (2+2))) - 2/2 \\
&:= 33/3 + ((33+3) \times ((3+3)^3 - 3)) \\
&:= (4 \times 44 \times 44) - (4^4 + 4)/4 \\
&:= 5 + ((5 \times (5 \times (5^5 - 55)/(5+5))) - 5/5) \\
&:= 6 + ((6^{6-6/6}) - ((6 \times 6 + 66) + 6/6)) \\
&:= 7777 - 7 \times (7+7) \\
&:= 88 \times 88 - (8/8 + 8 \times 8) \\
&:= (9+9)/9 + (((99+9) \times (9 \times 9 - 9)) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7680 &:= (1+1)^{11} + (11 \times (1+1))^{11-1-1} \\
&:= 2^{2+2} \times (22^2 - (2+2)) \\
&:= (3^3 + 3) \times ((3/3+3)^{3/3+3}) \\
&:= 4 \times ((4+4) \times (4^4 - 4 \times 4)) \\
&:= 5 + (5 \times (5 \times (5^5 - 55)/(5+5))) \\
&:= 6 + ((6^{6-6/6}) - (6 \times 6 + 66)) \\
&:= 7/7 + (7777 - 7 \times (7+7)) \\
&:= 8 \times (8 \times (8 \times (8+8) - 8)) \\
&:= (((9+9)/9)^9) \times ((9 - ((9+9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7681 &:= 1 + ((1+1)^{11} + (11 \times (1+1))^{11-1-1}) \\
&:= 2/2 + (2^{2+2} \times (22^2 - (2+2))) \\
&:= 3/3 + ((3^3 + 3) \times ((3/3+3)^{3/3+3})) \\
&:= 4/4 + (4 \times ((4+4) \times (4^4 - 4 \times 4))) \\
&:= 5 + ((5 \times (5-5 \times 5)) + (5/5+5)^5) \\
&:= 6 + (((6^{6-6/6}) - (6 \times 6 + 66)) + 6/6) \\
&:= 7 + ((7 \times 77 \times (7+7)) + ((7+7)/7)^7) \\
&:= 8/8 + (8 \times (8 \times (8 \times (8+8) - 8))) \\
&:= 9 + (9999/9 + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7682 &:= (1 + (11 + 11)) \times (1 + (1 + 1 + 1) \times 111) \\
&:= 2 + (2^{2+2} \times (22^2 - (2+2))) \\
&:= (3^3 - 3/3 - 3) \times (333 + 3/3) \\
&:= (4+4)/4 + (4 \times ((4+4) \times (4^4 - 4 \times 4))) \\
&:= 5 + (((5 \times (5-5 \times 5)) + (5/5+5)^5) + 5/5) \\
&:= 6 + (((66-666)/6) + (6^{6-6/6})) \\
&:= 7777 - ((77/7+77) + 7) \\
&:= (8+8)/8 + (8 \times (8 \times (8 \times (8+8) - 8))) \\
&:= 9 + ((9999+9)/9 + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7683 &:= 1 + ((1 + (11 + 11)) \times (1 + (1 + 1 + 1) \times 111)) \\
&:= (2 \times ((2^{2+2+2} - 2)^2 - 2)) - 2/2 \\
&:= 3 + ((3^3 + 3) \times ((3/3+3)^{3/3+3})) \\
&:= 4 + ((4 \times 44 \times 44) - (4^4 + 4)/4) \\
&:= (5/5+5)^5 + (((5+5)/5)^5 - 5 \times 5 \times 5) \\
&:= 6 + (((6^{6-6/6}) - 666/6) + 6) + 6 \\
&:= 7 + ((77-7/7) \times (7777/77)) \\
&:= 88/8 + (88 \times 88 - (8 \times 8 + 8)) \\
&:= 9 \times 9 \times 9 + 9 + ((9999+99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7684 &:= (1+1) \times ((1+1+111) \times (1+11 \times (1+1+1))) \\
&:= 2 \times ((2^{2+2+2} - 2)^2 - 2) \\
&:= (3/3+33) \times (((3+3)^3 + 3/3) + 3 \times 3) \\
&:= 4 + (4 \times ((4+4) \times (4^4 - 4 \times 4))) \\
&:= (5-5/5)^5 + (555 \times ((55+5)/5)) \\
&:= (((6+6)/6) + 66) \times (((666+6) + 6)/6) \\
&:= 7 + (((77-777)/7) + 7777) \\
&:= 88 \times 88 + (8 \times 8/(8+8) - 8 \times 8) \\
&:= 9 \times 9 \times 99 - ((9+9) \times (9+9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7685 &:= 1 + ((1+1) \times ((1+1+111) \times (1+11 \times (1+1+1)))) \\
&:= 2/2 + (2 \times ((2^{2+2+2} - 2)^2 - 2)) \\
&:= 3 + ((3^3 - 3/3 - 3) \times (333 + 3/3)) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4 \times 4))) + 4/4) \\
&:= 5 + ((5 \times (5 \times (5^5 - 55)/(5+5))) + 5) \\
&:= 66/6 + ((6^{6-6/6}) - (6 \times 6 + 66)) \\
&:= 7 + (7777 - (7 \times (7+7) + 7/7)) \\
&:= 8 + ((88 \times 88 - (88/8 + 8 \times 8)) + 8) \\
&:= 9 + (((99+9) \times (9 \times 9 - 9)) - (9/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7686 &:= (1+1) \times (((1 + ((1 + 11^{1+1})/(1+1)))^{1+1}) - 1) \\
&:= (2 \times (2^{2+2+2} - 2)^2) - 2 \\
&:= (3+3) \times (((3+3) \times ((3+3)^3 - 3)) + 3) \\
&:= ((4^4 - 4)/4) \times (444 + 44)/4 \\
&:= 5 + (((5 \times (5-5 \times 5)) + (5/5+5)^5) + 5) \\
&:= (66 \times (666/6 + 6)) - 6 \times 6 \\
&:= 7 + (7777 - 7 \times (7+7)) \\
&:= 8 + (88 \times 88 - (((8+8)/8) + 8 \times 8)) \\
&:= 9 + (((99+9) \times (9 \times 9 - 9)) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7687 &:= (((1 + (1 + (1 + 11^{1+1})))^{1+1})/(1+1)) - 1 \\
&:= (2 \times (2^{2+2+2} - 2)^2) - 2/2 \\
&:= 3^3 + ((3^3 \times 333) - (33/3)^3) \\
&:= 4 + (((4 \times 44 \times 44) - (4^4 + 4)/4) + 4) \\
&:= 55 + (((55+5)/5) \times ((55+5^5)/5)) \\
&:= 6/6 + ((66 \times (666/6 + 6)) - 6 \times 6) \\
&:= 7 + ((7777 - 7 \times (7+7)) + 7/7) \\
&:= 8 + (88 \times 88 - (8/8 + 8 \times 8)) \\
&:= 9 + (((99+9) \times (9 \times 9 - 9)) - 99) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7688 &:= ((1 + (1 + (1 + 11^{1+1})))^{1+1})/(1+1) \\
&:= 2 \times (2^{2+2+2} - 2)^2 \\
&:= (3 \times (33 \times (3 \times 3^3 - 3))) - 3/3 - 33 \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4 \times 4))) + 4) \\
&:= ((5 \times 5 + 5/5) + 5) \times (((5 - (5+5)/5)^5) + 5) \\
&:= (6^{6-6/6}) - (((66+66)/6) + 66) \\
&:= 7777 - ((77+7)/7 + 77) \\
&:= 8 + (8 \times (8 \times (8 \times (8+8) - 8))) \\
&:= (9-9/9) \times (9 \times (99+9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7689 &:= 1 + (((1 + (1 + (1 + 11^{1+1})))^{1+1})/(1+1)) \\
&:= 2/2 + (2 \times (2^{2+2+2} - 2)^2) \\
&:= 33 \times ((3 \times (3 \times 3^3 - 3)) - 3/3) \\
&:= 44/4 \times ((444 - 4/4) + 4^4) \\
&:= (5/5+5)^5 - (((5+5)/5)^5 + 55) \\
&:= 66/6 \times (((6 \times 6/(6+6))^6) - 6 \times 6) + 6 \\
&:= 7777 - (77/7 + 77) \\
&:= 8 + ((8 \times (8 \times (8 \times (8+8) - 8))) + 8/8) \\
&:= 9 + (((9+9)/9)^9) \times ((9 - ((9+9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7690 &:= 1 + (1 + (((1 + (1 + (1 + 11^{1+1})))^{1+1})/(1+1))) \\
&:= 2 + (2 \times (2^{2+2+2} - 2)^2) \\
&:= 3/3 + (33 \times ((3 \times (3 \times 3^3 - 3)) - 3/3)) \\
&:= 4 + (((4^4 - 4)/4) \times (444 + 44)/4) \\
&:= 5 \times (((5^5 + 5/5)/(5+5)/5) - 5 \times 5) \\
&:= 6666 + (((6+6)/6)^{(66-6)/6}) \\
&:= 77/7 + (7777 - 7 \times (7+7)) \\
&:= 8 + ((8 \times (8 \times (8 \times (8+8) - 8))) + ((8+8)/8)) \\
&:= 9 + (9999/9 + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7691 &:= (1+1)^{11} + (11 \times (1 + (1+1))^{11-1-1}) \\
&:= 2 + ((2 \times (2^{2+2+2} - 2)^2) + 2/2) \\
&:= (3^3 \times 3 \times (3 \times 33 - 3) - 3) - (3/3 + 3) \\
&:= 44/4 + (4 \times ((4+4) \times (4^4 - 4 \times 4))) \\
&:= (5/5+5)^5 - (5 \times 5 + 55 + 5) \\
&:= (6^{6-6/6}) + ((6/6 - 6) \times (66/6 + 6)) \\
&:= 7777 - (((7+7)/7+77) + 7) \\
&:= 88/8 + (8 \times (8 \times (8 \times (8+8) - 8))) \\
&:= ((9 \times 9 - 99/9) \times (99/9 + 99)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7692 &:= (1+1+1) \times (1 + (11 \times (11 + (1+1) \times 111))) \\
&:= 2 \times ((2^{2+2+2} - 2)^2 + 2) \\
&:= (3^3 \times 3 \times (3 \times 33 - 3) - 3) - 3 \\
&:= ((4+4) + 4) \times ((4/4 + 4)^4 + 4 \times 4) \\
&:= ((55+5)/5) \times (((55+5^5)/5) + 5) \\
&:= (6^{6-6/6}) - ((66+6+6) + 6) \\
&:= 7777 - (7/7 + 77 + 7) \\
&:= 88 \times 88 + ((88+8)/8 - 8 \times 8) \\
&:= 9 + (((9999+99)/9) + 9 \times 9 \times 9)
\end{aligned}$$

- ▶ **7693** := $(1 + ((1 + 1) \times (1 + 1 + 1))) \times (1111 - (1 + 11))$
:= $2/2 + (2 \times ((2^{2+2+2} - 2)^2 + 2))$
:= $3/3 + 3^3 \times (3 \times (3 \times 33 - 3) - 3) - 3$
:= $4 + (44/4 + ((444 - 4/4) + 4^4))$
:= $((5 + 5)/5 + 5) \times (55 \times (5 \times 5 - 5) - 5/5)$
:= $(6/6 + 6) \times ((6666/6) - (6 + 6))$
:= $7777 - 77 - 7$
:= $88 + ((8 \times (888 + 8 \times 8)) - (88/8))$
:= $(9 - (9 + 9)/9) \times (((99 \times 99 + 9)/9) + 9)$
- ▶ **7694** := $1 + ((1 + ((1 + 1) \times (1 + 1 + 1))) \times (1111 - (1 + 11)))$
:= $2 + (2 \times ((2^{2+2+2} - 2)^2 + 2))$
:= $3^3 \times (3 \times (3 \times 33 - 3) - 3) - 3/3$
:= $(4 \times 44 \times 44) - (((4 + 4)/4 + 44) + 4)$
:= $5 + ((5/5 + 5)^5 - (((5 + 5)/5)^5 + 55))$
:= $(6 - 66)/6 + (6 \times (6 \times 6 \times 6 \times 6 - (6 + 6)))$
:= $7/7 + (7777 - (77 + 7))$
:= $8 + ((88 \times 88 - (((8 + 8)/8) + 8 \times 8)) + 8)$
:= $9 \times 9 \times 99 - ((9 + 9) \times (9 + 9) + 9/9)$
- ▶ **7695** := $(1 + 1 + 1 + 1 + 11) \times (1 + (1 + 1)^{11-1-1})$
:= $2 + ((2 \times ((2^{2+2+2} - 2)^2 + 2)) + 2/2)$
:= $3^3 \times (3 \times (3 \times 33 - 3) - 3)$
:= $(44/4 + 4) \times ((4/4 + 4^4) + 4^4)$
:= $(5 \times (55 \times (5 \times 5 + 5))) - 555$
:= $6 \times 6 + ((6^{6-6/6}) - (666/6 + 6))$
:= $(7 + 7)/7 + (7777 - (77 + 7))$
:= $(8 - 8/8 + 8) \times (8 \times 8 \times 8 + 8/8)$
:= $9 \times (9 \times 99 - ((9 + 9 + 9) + 9))$
- ▶ **7696** := $1 + ((1 + 1 + 1 + 1 + 11) \times (1 + (1 + 1)^{11-1-1}))$
:= $2 \times (((2^{2+2+2} - 2)^2 + 2) + 2)$
:= $3/3 + (3^3 \times 3 \times (3 \times 33 - 3) - 3)$
:= $4 \times (((4 + 4) \times (4^4 - 4 \times 4)) + 4)$
:= $(5/5 + 5)^5 - (5 \times 5 + 55)$
:= $(6 \times 6 + 6/6) \times (6 \times 6 \times 6 - ((6 + 6)/6 + 6))$
:= $7 + (7777 - (77/7 + 77))$
:= $8 + ((8 \times (8 \times (8 \times (8 + 8) - 8))) + 8)$
:= $9/9 + (9 \times (9 \times 99 - ((9 + 9 + 9) + 9)))$
- ▶ **7697** := $((1 + 1)^{1+1+11}) - (11 + ((11 + 11)^{1+1}))$
:= $2/2 + (2 \times (((2^{2+2+2} - 2)^2 + 2) + 2))$
:= $3 + 3^3 \times (3 \times (3 \times 33 - 3) - 3) - 3/3$
:= $4/4 + (4 \times (((4 + 4) \times (4^4 - 4 \times 4)) + 4))$
:= $5/5 + ((5/5 + 5)^5 - (5 \times 5 + 55))$
:= $(6^{6-6/6}) - (66 + 6/6 + 6 + 6)$
:= $7777 - ((7 + 7 + 7)/7 + 77)$
:= $8 + (((8 \times (8 \times (8 \times (8 + 8) - 8))) + 8/8) + 8)$
:= $9 + ((9 - 9/9) \times (9 \times (99 + 9) - (99/9)))$
- ▶ **7698** := $11 + (((((1 + (1 + (1 + 11^{1+1})))^{1+1})/(1 + 1)) - 1)$
:= $(2 \times 2 \times 22)^2 - (2 \times 22 + 2)$
:= $3 + (3^3 \times 3 \times (3 \times 33 - 3) - 3)$
:= $(4 \times 44 \times 44) - ((4 + 4)/4 + 44)$
:= $(5 + 5)/5 + ((5/5 + 5)^5 - (5 \times 5 + 55))$
:= $(6^{6-6/6}) - (66 + 6 + 6)$
:= $7777 - ((7 + 7)/7 + 77)$
:= $8 + (((8 \times (8 \times (8 \times (8 + 8) - 8))) + ((8 + 8)/8)) + 8)$
:= $9 + (((((9 + 9)/9)^9) \times ((9 - ((9 + 9 + 9)/9) + 9)) + 9)$
- ▶ **7699** := $3 + 3^3 \times (3 \times (3 \times 33 - 3) - 3) + 3/3$
:= $22/2 + (2 \times (2^{2+2+2} - 2)^2)$
:= $3 + ((3^3 \times 3 \times (3 \times 33 - 3) - 3) + 3/3)$
:= $(4 \times 44 \times 44) - (44 + 4/4)$
:= $((5 + 5 + 5) \times 555) - (5^5 + 5)/5$
:= $(6^{6-6/6}) - (66/6 + 66)$
:= $7777 - 7/7 - 77$
:= $8 + ((8 \times (8 \times (8 \times (8 + 8) - 8))) + (88/8))$
:= $9 + (((9999/9 + 9 \times 9 \times 9) + 9) + 9)$
- ▶ **7700** := $(111 - 1) \times ((11 - 1 - 1)^{1+1} - 11)$
:= $2 \times ((2 \times (2 \times 22)^2) - 22)$
:= $33 + (((33/3 + 3 \times 3)^3) - 333)$
:= $44 \times (4 \times 44 - 4/4)$
:= $5 \times (5 \times ((5^5 + 5)/5 + 5) - 5)$
:= $(6/6 + 6) \times ((6666 - 66)/6)$
:= $7777 - 77$
:= $88 \times 88 - (88/((8 + 8)/8))$
:= $(9 \times 9 - 99/9) \times (99/9 + 99)$
- ▶ **7701** := $((((1 + 1 + 1)^{11}) - 1)/(1 + (11 + 11))) - 1$
:= $2/2 + (2 \times ((2 \times (2 \times 22)^2) - 22))$
:= $33 + ((33 + 3) \times ((3 + 3)^3 - 3))$
:= $4/4 + (44 \times (4 \times 44 - 4/4))$
:= $(5/5 + 5)^5 - (5 \times (5 + 5 + 5))$
:= $6 \times 6 + ((6^{6-6/6}) - 666/6)$
:= $7/7 + (7777 - 77)$
:= $8/8 + (88 \times 88 - (88/((8 + 8)/8)))$
:= $9/9 + ((9 \times 9 - 99/9) \times (99/9 + 99))$
- ▶ **7702** := $(((1 + 1 + 1)^{11}) - 1)/(1 + (11 + 11))$
:= $2 + (2 \times ((2 \times (2 \times 22)^2) - 22))$
:= $3/3 + (((33 + 3) \times ((3 + 3)^3 - 3)) + 33)$
:= $(4 + 4)/4 + (44 \times (4 \times 44 - 4/4))$
:= $5/5 + ((5/5 + 5)^5 - (5 \times (5 + 5 + 5)))$
:= $(6^{6-6/6}) - (((6 + 6)/6) + 66) + 6$
:= $(7 + 7)/7 + (7777 - 77)$
:= $88 + ((8 \times (888 + 8 \times 8)) - ((8 + 8)/8))$
:= $((9 - 9/9) \times (9 \times (99 + 9) - 9)) - (9 + 9)/9$
- ▶ **7703** := $1 + (((1 + 1 + 1)^{11}) - 1)/(1 + (11 + 11))$
:= $2 + ((2 \times ((2 \times (2 \times 22)^2) - 22)) + 2/2)$
:= $((33/3 + 3 \times 3)^3) - 3 \times 3 \times 33$
:= $4 + (4 \times 44 \times 44) - (44 + 4/4)$
:= $(5 + 5)/5 + ((5/5 + 5)^5 - (5 \times (5 + 5 + 5)))$
:= $(6^{6-6/6}) - (66 + 6/6 + 6)$
:= $7777 + (((7 + 7 + 7)/7) - 77)$
:= $8 + ((8 - 8/8 + 8) \times (8 \times 8 \times 8 + 8/8))$
:= $((9 - 9/9) \times (9 \times (99 + 9) - 9)) - 9/9$
- ▶ **7704** := $1 + (1 + (((1 + 1 + 1)^{11}) - 1)/(1 + (11 + 11)))$
:= $2 \times (((2 \times (2 \times 22)^2) - 22) + 2)$
:= $3 \times ((33 \times (3 \times 3^3 - 3)) - (3 + 3))$
:= $4 + (44 \times (4 \times 44 - 4/4))$
:= $5 + (((5 + 5 + 5) \times 555) - (5^5 + 5)/5)$
:= $6 \times (6 \times 6 \times 6 \times 6 - (6 + 6))$
:= $77/7 + (7777 - (77 + 7))$
:= $88 + (8 \times (888 + 8 \times 8))$
:= $(9 - 9/9) \times (9 \times (99 + 9) - 9)$
- ▶ **7705** := $(1 + (11 + 11)) \times (1 + (1 + (1 + 1 + 1) \times 111))$
:= $2/2 + ((2 \times 2 \times 22)^2 + (2 \times (2 - 22)))$
:= $3/3 + (3 \times ((33 \times (3 \times 3^3 - 3)) - (3 + 3)))$
:= $4 + ((44 \times (4 \times 44 - 4/4)) + 4/4)$
:= $5 + (5 \times (5 \times ((5^5 + 5)/5 + 5) - 5))$
:= $6/6 + (6 \times (6 \times 6 \times 6 \times 6 - (6 + 6)))$
:= $7 + (7777 - ((7 + 7)/7 + 77))$
:= $8/8 + ((8 \times (888 + 8 \times 8)) + 88)$
:= $9/9 + ((9 - 9/9) \times (9 \times (99 + 9) - 9))$
- ▶ **7706** := $(1 + 1) \times (((1 + 1) \times ((1 + 1)^{11} - 11^{1+1})) - 1)$
:= $(2^{22/2+2}) - (22^2 + 2)$
:= $3 + (((33/3 + 3 \times 3)^3) - 3 \times 3 \times 33)$
:= $4 + ((44 \times (4 \times 44 - 4/4)) + (4 + 4)/4)$
:= $5 + ((5/5 + 5)^5 - (5 \times (5 + 5 + 5)))$
:= $(6^{6-6/6}) - (((6 + 6)/6)^6 + 6)$
:= $7 + (7777 - (7/7 + 77))$
:= $88 + ((8 \times (888 + 8 \times 8)) + ((8 + 8)/8))$
:= $(9 + 9)/9 + ((9 - 9/9) \times (9 \times (99 + 9) - 9))$
- ▶ **7707** := $((1 + 1)^{1+1+11}) - (1 + ((11 + 11)^{1+1}))$
:= $(2^{22/2+2}) - (22^2 + 2/2)$
:= $3333 + ((3 + 3) \times 3^{3+3})$
:= $(4 \times (44 \times 44 - (4 + 4))) - 4/4 - 4$
:= $5 + (((5/5 + 5)^5 - (5 \times (5 + 5 + 5))) + 5/5)$
:= $(6^{6-6/6}) - (6 \times 6/(6 + 6) + 66)$
:= $7 + (7777 - 77)$
:= $88 \times 88 - 888/(8 + 8 + 8)$
:= $(9 - (9 + 9)/9) \times (((9999 - 9)/9) - 9)$

$$\begin{aligned}
\blacktriangleright 7708 &:= (1+1) \times ((1+1) \times ((1+1)^{11} - 11^{1+1})) \\
&:= (2^{2^{2+2}}) - 22^2 \\
&:= 3/3 + (((3+3) \times 3^{3+3}) + 3333) \\
&:= (4 \times (44 \times 44 - (4+4))) - 4 \\
&:= (5/5 + 5)^5 - ((5^5/5 + 5)/(5+5) + 5) \\
&:= (6^{6-6/6}) - (((6+6)/6) + 66) \\
&:= 7 + ((7777 - 77) + 7/7) \\
&:= 8 + (88 \times 88 - (88/(8+8)/8)) \\
&:= (9/9 + 9 \times 9) \times (((9-99)/(9+9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7713 &:= 11 + (((1+1+1)^{11}) - 1)/(1 + (11+11)) \\
&:= 2/2 + (2^{2+2} \times (22^2 - 2)) \\
&:= 3 \times ((33 \times (3 \times 3^3 - 3)) - 3) \\
&:= 4/4 + (4 \times (44 \times 44 - (4+4))) \\
&:= (5/5 + 5)^5 - (5^5/5 + 5)/(5+5) \\
&:= 6/6 + ((6^{6-6/6}) - ((6+6)/6)^6) \\
&:= 7 + ((7777 - (7/7 + 77)) + 7) \\
&:= 8/8 + (88 \times 88 - ((8+8+8) + 8)) \\
&:= 9 + ((9-9/9) \times (9 \times (99+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7718 &:= (1+11 \times (1+1+1)) \times (1 + ((1+1) \times (1+1+11))) \\
&:= (2 \times 2 \times 22)^2 - 22 - 2 - 2 \\
&:= (3/3 + 33) \times ((3+3)^3 + 33/3) \\
&:= (4-44)/4 + (4 \times (44 \times 44 - 4)) \\
&:= (5+5)/5 + ((5/5 + 5)^5 - (55+5)) \\
&:= 6 + ((6^{6-6/6}) - ((6+6)/6)^6) \\
&:= 7 + ((7777 - 77) + (77/7)) \\
&:= 88 \times 88 + ((8-88)/8 - (8+8)) \\
&:= (9 \times (9 \times (99+9) + 9)) - 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7709 &:= 1 + ((1+1) \times ((1+1) \times ((1+1)^{11} - 11^{1+1}))) \\
&:= 2/2 + ((2^{2^{2+2}}) - 22^2) \\
&:= ((3+3)^{3-3/3+3}) - (((3/3+3)^3) + 3) \\
&:= 4/4 + ((4 \times (44 \times 44 - (4+4))) - 4) \\
&:= (5/5 + 5)^5 - (((55+5)/5) + 55) \\
&:= (6^{6-6/6}) - (66 + 6/6) \\
&:= 7 + ((7777 - 77) + ((7+7)/7)) \\
&:= 88 \times 88 - (88/8 + 8 + 8 + 8) \\
&:= 9 + ((9 \times 9 - 99/9) \times (99/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7714 &:= 1 + (11 + (((1+1+1)^{11}) - 1)/(1 + (11+11))) \\
&:= 2 + (2^{2+2} \times (22^2 - 2)) \\
&:= 3/3 + (3 \times ((33 \times (3 \times 3^3 - 3)) - 3)) \\
&:= (4+4)/4 + (4 \times (44 \times 44 - (4+4))) \\
&:= (5/5 + 5)^5 + ((5-5^5/5)/(5+5)) \\
&:= 6 + ((6^{6-6/6}) - (((6+6)/6) + 66)) \\
&:= 7 + (7777 - 77 + 7) \\
&:= (8-8/8) \times ((8888 - 8)/8 - 8) \\
&:= (9 - (9+9)/9) \times (9999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7719 &:= 11 + ((1+1) \times ((1+1) \times ((1+1)^{11} - 11^{1+1}))) \\
&:= (2 \times 2 \times 22)^2 - ((22 + 2/2) + 2) \\
&:= (3 \times (33 \times (3 \times 3^3 - 3))) - 3 \\
&:= (4 \times (44 \times 44 - 4)) - (4/4 + 4 + 4) \\
&:= (5/5 + 5)^5 - ((5+5)/5 + 55) \\
&:= 6 + (((6^{6-6/6}) - ((6+6)/6)^6) + 6/6) \\
&:= 7777 - (((7+7)/7 + 7 \times 7) + 7) \\
&:= 88 \times 88 - (8/8 + 8 + 8 + 8) \\
&:= (((9+9)/9) + 9 \times 9) \times ((99+9)/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7710 &:= (1+1) \times (1 + ((1+1) \times ((1+1)^{11} - 11^{1+1}))) \\
&:= (2^{2+2} \times (22^2 - 2)) - 2 \\
&:= (3 \times ((33 \times (3 \times 3^3 - 3)) - 3)) - 3 \\
&:= (4/4 + 4^4) \times (4 \times (4+4) - (4+4)/4) \\
&:= (5+5+5) \times (5^5 - 555)/5 \\
&:= (6^{6-6/6}) - 66 \\
&:= 7777 + (((77-7)/7) - 77) \\
&:= (8-8/8+8) \times (8 \times 8 \times 8 + (8+8)/8) \\
&:= (9/9+9) \times (9 \times 99 - (999/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7715 &:= 1 + (1 + (11 + (((1+1+1)^{11}) - 1)/(1 + (11+11)))) \\
&:= 2 + ((2^{2+2} \times (22^2 - 2)) + 2/2) \\
&:= 3 + ((33 - 3/3) \times (((3^{3+3} + 3)/3) - 3)) \\
&:= 4 + ((4 \times (44 \times 44 - (4+4))) - 4/4) \\
&:= (5/5 + 5)^5 - ((55 + 5/5) + 5) \\
&:= 6 + ((6^{6-6/6}) - (66 + 6/6)) \\
&:= 7 + (((7777 - 77) + 7/7) + 7) \\
&:= 8 + (88 \times 88 - 888/(8+8+8)) \\
&:= 99/9 + ((9-9/9) \times (9 \times (99+9) - 9)) \\
\blacktriangleright 7720 &:= (1+1) \times ((11 \times ((11 \times ((11 \times (1+1+1)) - 1)) - 1)) - 1) \\
&:= (2 \times 2 \times 22)^2 - 22 - 2 \\
&:= 3/3 + ((3 \times (33 \times (3 \times 3^3 - 3))) - 3) \\
&:= (4 \times (44 \times 44 - 4)) - 4 - 4 \\
&:= (5/5 + 5)^5 - (55 + 5/5) \\
&:= (6^{6-6/6}) + (((66-6)/6) - 66) \\
&:= 7777 - ((7/7 + 7 \times 7) + 7) \\
&:= 88 \times 88 - 8 - 8 - 8 \\
&:= (9-9/9) \times ((9 \times (99+9) - 9) + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7711 &:= 1 + ((1+1) \times (1 + ((1+1) \times ((1+1)^{11} - 11^{1+1})))) \\
&:= (2^{2+2} \times (22^2 - 2)) - 2/2 \\
&:= 33/3 \times (3^{3+3} - (3^3 + 3/3)) \\
&:= (4 \times (44 \times 44 - (4+4))) - 4/4 \\
&:= (5/5 + 5)^5 - (55 + 5 + 5) \\
&:= 6/6 + ((6^{6-6/6}) - 66) \\
&:= 77/7 + (7777 - 77) \\
&:= 88/8 \times ((8 \times 88 - (88/8)) + 8) \\
&:= 99/9 \times (9 \times 9 \times 9 - ((9/9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7716 &:= (1+1) \times ((1+1) \times (1 + (1 + ((1+1)^{11} - 11^{1+1})))) \\
&:= 2 + ((2^{2+2} \times (22^2 - 2)) + 2) \\
&:= 3 + (3 \times ((33 \times (3 \times 3^3 - 3)) - 3)) \\
&:= 4 + (4 \times (44 \times 44 - (4+4))) \\
&:= (5/5 + 5)^5 - 55 - 5 \\
&:= 6 + ((6^{6-6/6}) - 66) \\
&:= 7777 - ((77+7)/7 + 7 \times 7) \\
&:= 88 \times 88 + ((8-8 \times 8)/(8+8)/8) \\
&:= 9 + ((9 - (9+9)/9) \times (((9999 - 9)/9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7721 &:= ((11 \times (1+1)^{1+1+1})^{1+1}) - (1 + (11+11)) \\
&:= (2 \times 2 \times 22)^2 - 22 - 2/2 \\
&:= (3 \times (33 \times (3 \times 3^3 - 3))) - 3/3 \\
&:= 4 + ((4 \times (44 \times 44 - 4)) - 44/4) \\
&:= (5/5 + 5)^5 - 55 \\
&:= 66/6 + ((6^{6-6/6}) - 66) \\
&:= 7777 - (7 \times 7 + 7) \\
&:= 8/8 + (88 \times 88 - (8+8+8)) \\
&:= (((9+9)/9)^9) + 9 \times (9 \times (9 \times 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7712 &:= (1+1) \times ((1+1) \times (1 + ((1+1)^{11} - 11^{1+1}))) \\
&:= 2^{2+2} \times (22^2 - 2) \\
&:= (33 - 3/3) \times (((3^{3+3} + 3)/3) - 3) \\
&:= 4 \times (44 \times 44 - (4+4)) \\
&:= 5/5 + ((5/5 + 5)^5 - (55 + 5 + 5)) \\
&:= (6^{6-6/6}) - ((6+6)/6)^6 \\
&:= 7777 + ((77+7)/7 - 77) \\
&:= 88 \times 88 - ((8+8+8) + 8) \\
&:= (9-9/9) \times ((9 \times (99+9) - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7717 &:= ((1+1+1) \times ((1+11) \times (1 + (11+11)))) - 11 \\
&:= 2 + (((2^{2+2} \times (22^2 - 2)) + 2/2) + 2) \\
&:= 3 + ((3 \times ((33 \times (3 \times 3^3 - 3)) - 3)) + 3/3) \\
&:= (4 \times (44 \times 44 - 4)) - 44/4 \\
&:= 5/5 + ((5/5 + 5)^5 - (55 + 5)) \\
&:= 6 + (((6^{6-6/6}) - 66) + 6/6) \\
&:= 7777 - (77/7 + 7 \times 7) \\
&:= 88 \times 88 - (88/8 + 8 + 8) \\
&:= ((99 - (99/9))^{(9+9)/9}) - (9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7722 &:= (1+1) \times (11 \times ((11 \times ((11 \times (1+1+1)) - 1)) - 1)) \\
&:= (2 \times 2 \times 22)^2 - 22 \\
&:= 3 \times (33 \times (3 \times 3^3 - 3)) \\
&:= 44/4 \times 4 \times 4 \times 44 - (4+4)/4 \\
&:= 5/5 + ((5/5 + 5)^5 - 55) \\
&:= 66 \times (666/6 + 6) \\
&:= 7/7 + (7777 - (7 \times 7 + 7)) \\
&:= 88/8 \times (8 \times 88 - ((8+8)/8)) \\
&:= 99 \times (9 \times 9 - ((9+9+9)/9))
\end{aligned}$$

- 7723 := $1 + ((1 + 1) \times (11 \times ((11 \times ((11 \times (1 + 1 + 1)) - 1)) - 1)) - 1)$
:= $2/2 + ((2 \times 2 \times 22)^2 - 22)$
:= $3/3 + (3 \times (33 \times (3 \times 3^3 - 3)))$
:= $(4 \times (44 \times 44 - 4)) - 4/4 - 4$
:= $(5 + 5)/5 + ((5/5 + 5)^5 - 55)$
:= $6/6 + (66 \times (666/6 + 6))$
:= $(7 + 7)/7 + (7777 - (7 \times 7 + 7))$
:= $88 \times 88 + ((8 - (88 + 88))/8)$
:= $9/9 + (99 \times (9 \times 9 - ((9 + 9 + 9)/9)))$
- 7724 := $(1 + 1) \times (1 + (11 \times ((11 \times ((11 \times (1 + 1 + 1)) - 1)) - 1)) - 1)$
:= $2 + ((2 \times 2 \times 22)^2 - 22)$
:= $3 + ((3 \times (33 \times (3 \times 3^3 - 3))) - 3/3)$
:= $(4 \times (44 \times 44 - 4)) - 4$
:= $5 + ((5/5 + 5)^5 - ((5 + 5)/5 + 55))$
:= $6 + (((6^{6-6/6}) - ((6 + 6)/6)^6) + 6)$
:= $7 + (7777 - (7/7 + 7 \times 7))$
:= $88 \times 88 - ((88 + 8)/8 + 8)$
:= $(9 + 9)/9 + (99 \times (9 \times 9 - ((9 + 9 + 9)/9)))$
- 7725 := $(1 + 1 + 1) \times (((1 + 111) \times (1 + (11 + 11))) - 1)$
:= $2 + (((2 \times 2 \times 22)^2 - 22) + 2/2)$
:= $3 + (3 \times (33 \times (3 \times 3^3 - 3)))$
:= $4/4 + ((4 \times (44 \times 44 - 4)) - 4)$
:= $5 + ((5/5 + 5)^5 - (55 + 5/5))$
:= $66 + ((6^{6-6/6}) - (666/6 + 6))$
:= $7777 - (((7 + 7 + 7)/7) + 7 \times 7)$
:= $88 \times 88 - (88/8 + 8)$
:= $99 + ((9/9 + 9 \times 9) \times ((99 + 9)/9 + 9 \times 9))$
- 7726 := $(1 + 1) \times (((1 + 1) \times ((1 + 1)^{11} - 111)) - 11)$
:= $2 + (((2 \times 2 \times 22)^2 - 22) + 2)$
:= $3 + ((3 \times (33 \times (3 \times 3^3 - 3))) + 3/3)$
:= $(4 \times (44 \times 44 - 4)) - (4 + 4)/4$
:= $5 + ((5/5 + 5)^5 - 55)$
:= $6 + (((66 - 6)/6) - 66) + (6^{6-6/6})$
:= $7777 - ((7 + 7)/7 + 7 \times 7)$
:= $88 \times 88 + ((8 - 88)/8 - 8)$
:= $((99 - (99/9))^{(9+9)/9}) - (9 + 9)$
- 7727 := $((1 + 1 + 1) \times ((1 + 111) \times (1 + (11 + 11)))) - 1$
:= $(2 \times 2 \times 22)^2 - (2^{2+2} + 2/2)$
:= $3 + (((3 \times (33 \times (3 \times 3^3 - 3))) - 3/3) + 3)$
:= $(4 \times (44 \times 44 - 4)) - 4/4$
:= $5 + (((5/5 + 5)^5 - 55) + 5/5)$
:= $6 + (((6^{6-6/6}) - 66) + (66/6))$
:= $7777 - (7/7 + 7 \times 7)$
:= $88 \times 88 - (8/8 + 8 + 8)$
:= $9 + ((9 \times (9 \times (99 + 9) + 9)) - 9999/9)$
- 7728 := $(1 + 1 + 1) \times ((1 + 111) \times (1 + (11 + 11)))$
:= $2 \times (2 \times (2 \times (2 \times 22^2 - 2)))$
:= $3 + ((3 \times (33 \times (3 \times 3^3 - 3))) + 3)$
:= $4 \times (44 \times 44 - 4)$
:= $5 + (((5/5 + 5)^5 - 55) + ((5 + 5)/5))$
:= $6 + (66 \times (666/6 + 6))$
:= $7777 - 7 \times 7$
:= $88 \times 88 - 8 - 8$
:= $((99/9) + 9 \times 9) \times (((9 + 9 + 9)/9) + 9 \times 9)$
- 7729 := $1 + ((1 + 1 + 1) \times ((1 + 111) \times (1 + (11 + 11))))$
:= $2/2 + (2 \times (2 \times (2 \times (2 \times 22^2 - 2))))$
:= $3 + (((3 \times (33 \times (3 \times 3^3 - 3))) + 3/3) + 3)$
:= $4/4 + (4 \times (44 \times 44 - 4))$
:= $5 + (((5/5 + 5)^5 - ((5 + 5)/5 + 55)) + 5)$
:= $(6^{6-6/6}) - (66/6 + 6 \times 6)$
:= $7/7 + (7777 - 7 \times 7)$
:= $8/8 + (88 \times 88 - (8 + 8))$
:= $9 + ((9 - 9/9) \times ((9 \times (99 + 9) - 9) + ((9 + 9)/9)))$
- 7730 := $1 + (1 + ((1 + 1 + 1) \times ((1 + 111) \times (1 + (11 + 11)))))$
:= $2 + (2 \times (2 \times (2 \times (2 \times 22^2 - 2))))$
:= $(3 \times ((33 \times (3 \times 3^3 - 3)) + 3)) - 3/3$
:= $(4 + 4)/4 + (4 \times (44 \times 44 - 4))$
:= $5 + (((5/5 + 5)^5 - (55 + 5/5)) + 5)$
:= $(6 - 66)/6 + (6 \times (6 \times 6 \times 6 - 6))$
:= $(7 + 7)/7 + (7777 - 7 \times 7)$
:= $(8 + 8)/8 + (88 \times 88 - (8 + 8))$
:= $9 + (9 \times (9 \times (9 \times 9 + 9) - 9) + ((9 + 9)/9)^9)$
- 7731 := $(1 + 1 + 1) \times (1 + ((1 + 111) \times (1 + (11 + 11))))$
:= $(2 \times 2 \times 22)^2 - (22/2 + 2)$
:= $3 \times ((33 \times (3 \times 3^3 - 3)) + 3)$
:= $4 + ((4 \times (44 \times 44 - 4)) - 4/4)$
:= $5 + (((5/5 + 5)^5 - 55) + 5)$
:= $66 + ((6^{6-6/6}) - 666/6)$
:= $7777 + (((7 + 7 + 7)/7) - 7 \times 7)$
:= $88 \times 88 - (88 + 8 + 8)/8$
:= $9 + (99 \times (9 \times 9 - ((9 + 9 + 9)/9)))$
- 7732 := $((11 \times (1 + 1)^{1+1+1})^{1+1}) - 1 - 11$
:= $2 \times (2 \times ((2 \times 22)^2 - 2)) - 2$
:= $3/3 + (3 \times ((33 \times (3 \times 3^3 - 3)) + 3))$
:= $4 + (4 \times (44 \times 44 - 4))$
:= $55/5 + ((5/5 + 5)^5 - 55)$
:= $(6^{6-6/6}) - (((6 + 6)/6 + 6 \times 6) + 6)$
:= $77/7 + (7777 - (7 \times 7 + 7))$
:= $88 \times 88 - (88 + 8)/8$
:= $9 + ((99 \times (9 \times 9 - ((9 + 9 + 9)/9))) + 9/9)$
- 7733 := $((11 \times (1 + 1)^{1+1+1})^{1+1}) - 11$
:= $(2 \times 2 \times 22)^2 - 22/2$
:= $33/3 + (3 \times (33 \times (3 \times 3^3 - 3)))$
:= $(4 \times 44 \times 44) - 44/4$
:= $(5/5 + 5)^5 + (((55 + 5)/5) - 55)$
:= $(6^{6-6/6}) - (6 \times 6 + 6/6 + 6)$
:= $7 + (7777 - ((7 + 7)/7 + 7 \times 7))$
:= $88 \times 88 - 88/8$
:= $((99 - 9/9) \times (9 \times 9 - ((9 + 9)/9))) - 9$
- 7734 := $1 + (((11 \times (1 + 1)^{1+1+1})^{1+1}) - 11)$
:= $(2 \times (2 \times ((2 \times 22)^2 - 2))) - 2$
:= $3 + (3 \times ((33 \times (3 \times 3^3 - 3)) + 3))$
:= $(4 - 44)/4 + (4 \times 44 \times 44)$
:= $(5/5 + 5)^5 - (((5 + 5)/5)^5 + 5) + 5$
:= $(6^{6-6/6}) - (6 \times 6 + 6)$
:= $7 + (7777 - (7/7 + 7 \times 7))$
:= $88 \times 88 + (8 - 88)/8$
:= $((99 - (99/9))^{(9+9)/9}) - 9/9 - 9$
- 7735 := $1 + (1 + ((11 \times (1 + 1)^{1+1+1})^{1+1}) - 11)$
:= $2 + ((2 \times 2 \times 22)^2 - 22/2)$
:= $3 + ((3 \times ((33 \times (3 \times 3^3 - 3)) + 3)) + 3/3)$
:= $(4 \times 44 \times 44) - (4/4 + 4 + 4)$
:= $((5 + 5)/5 + 5) \times (55 \times (5 \times 5 - 5) + 5)$
:= $6/6 + ((6^{6-6/6}) - (6 \times 6 + 6))$
:= $7 + (7777 - 7 \times 7)$
:= $88 \times 88 - (8/8 + 8)$
:= $((99 - (99/9))^{(9+9)/9}) - 9$
- 7736 := $1 + (1 + (1 + ((11 \times (1 + 1)^{1+1+1})^{1+1}) - 11))$
:= $2 \times (2 \times ((2 \times 22)^2 - 2))$
:= $3 + ((3 \times (33 \times (3 \times 3^3 - 3))) + 33/3)$
:= $(4 \times 44 \times 44) - 4 - 4$
:= $5 + (((5/5 + 5)^5 - 55) + 5) + 5$
:= $(6 + 6)/6 + ((6^{6-6/6}) - (6 \times 6 + 6))$
:= $7 + ((7777 - 7 \times 7) + 7/7)$
:= $88 \times 88 - 8$
:= $9/9 + (((99 - (99/9))^{(9+9)/9}) - 9)$
- 7737 := $((1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} - 111))) - 11$
:= $2/2 + (2 \times (2 \times ((2 \times 22)^2 - 2)))$
:= $((3 \times 3 + 3) \times (3 \times (3 + 3)^3 - 3)) - 3$
:= $4 + ((4 \times 44 \times 44) - 44/4)$
:= $5 + (((5/5 + 5)^5 - 55) + (55/5))$
:= $(6^{6-6/6}) - ((66 \times 6/(6 + 6)) + 6)$
:= $((77/7 + 77)^{(7+7)/7}) - 7$
:= $8/8 + (88 \times 88 - 8)$
:= $(9 \times (9 \times 99 - (9 + 9))) - (999/9 + 9)$

$$\begin{aligned}
\blacktriangleright 7738 &:= 1 + (((1+1) \times ((1+1) \times ((1+1)^{11} - 111))) - 11) \\
&:= 2 + (2 \times (2 \times (2 \times 22)^2 - 2)) \\
&:= 3/3 + (((3 \times 3 + 3) \times (3 \times (3 + 3)^3 - 3)) - 3) \\
&:= (4 \times 44 \times 44) - ((4 + 4)/4 + 4) \\
&:= 5 + (((55 + 5)/5) - 55) + (5/5 + 5)^5 \\
&:= (6^{6-6/6}) - ((6 + 6)/6 + 6 \times 6) \\
&:= 7777 + (((77 - 7)/7) - 7 \times 7) \\
&:= (8 + 8)/8 + (88 \times 88 - 8) \\
&:= 9 \times 9 \times (99 + 9) - (99/9 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7739 &:= (111 - 1 - 1) \times (((1 + 11)^{1+1}/(1 + 1)) - 1) \\
&:= (2 \times 2 \times 22)^2 - 2/2 - 2 - 2 \\
&:= ((3 \times 3 + 3) \times (3 \times (3 + 3)^3 - 3)) - 3/3 \\
&:= (4 \times 44 \times 44) - 4/4 - 4 \\
&:= (5/5 + 5)^5 - (((5 + 5)/5)^5 + 5) \\
&:= (6^{6-6/6}) - (6 \times 6 + 6/6) \\
&:= 77/7 + (7777 - 7 \times 7) \\
&:= 88/8 + (88 \times 88 - (8 + 8)) \\
&:= (9 \times 9 - (9/9 + 9)) \times (9/9 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7740 &:= (1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} - (1 + 1 + 111))) \\
&:= 2 \times ((2 \times (2 \times 22)^2) - 2) \\
&:= (3 \times 3 + 3) \times (3 \times (3 + 3)^3 - 3) \\
&:= (4 \times 44 \times 44) - 4 \\
&:= (55 + 5) \times ((5 \times 5 \times 5 - 5/5) + 5) \\
&:= 6 \times (6 \times 6 \times 6 \times 6 - 6) \\
&:= 7777 + (((77 + 7)/7) - 7 \times 7) \\
&:= 88 \times 88 - 8 \times 8/(8 + 8) \\
&:= 9 \times 9 \times (99 + 9) - (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7741 &:= ((11 \times (1 + 1)^{1+1+1})^{1+1}) - 1 - 1 - 1 \\
&:= (2 \times 2 \times 22)^2 - 2/2 - 2 \\
&:= 3/3 + (((3 \times 3 + 3) \times (3 \times (3 + 3)^3 - 3)) \\
&:= 4/4 + ((4 \times 44 \times 44) - 4) \\
&:= (5/5 + 5)^5 - ((5 \times 5 + 5) + 5) \\
&:= 6/6 + (6 \times (6 \times 6 \times 6 \times 6 - 6)) \\
&:= ((7 + 7) \times ((7 \times 77 + 7) + 7)) - 7/7 \\
&:= 8 + (88 \times 88 - (88/8)) \\
&:= ((99 - 9/9) \times (9 \times 9 - 9/9)) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7742 &:= ((11 \times (1 + 1)^{1+1+1})^{1+1}) - 1 - 1 \\
&:= (2 \times 2 \times 22)^2 - 2 \\
&:= ((3 + 3)^{3-3/3+3}) - 3/3 - 33 \\
&:= (4 \times 44 \times 44) - (4 + 4)/4 \\
&:= 5/5 + ((5/5 + 5)^5 - ((5 \times 5 + 5) + 5)) \\
&:= (6 + 6)/6 + (6 \times (6 \times 6 \times 6 \times 6 - 6)) \\
&:= (7 + 7) \times ((7 \times 77 + 7) + 7) \\
&:= 88 \times 88 - (8 + 8)/8 \\
&:= (99 - 9/9) \times (9 \times 9 - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7743 &:= ((11 \times (1 + 1)^{1+1+1})^{1+1}) - 1 \\
&:= (2 \times 2 \times 22)^2 - 2/2 \\
&:= ((3 + 3)^{3-3/3+3}) - 33 \\
&:= (4 \times 44 \times 44) - 4/4 \\
&:= (5/5 + 5)^5 - (((5 + 5)/5)^5 + 5/5) \\
&:= (6^{6-6/6}) - (66 \times 6/(6 + 6)) \\
&:= 7/7 + ((7 + 7) \times ((7 \times 77 + 7) + 7)) \\
&:= 88 \times 88 - 8/8 \\
&:= ((99 - (99/9))^{(9+9)/9}) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7744 &:= (11 \times (1 + 1)^{1+1+1})^{1+1} \\
&:= (2 \times 2 \times 22)^2 \\
&:= (33 - 3/3) \times ((3^{3+3} - 3)/3) \\
&:= 4 \times 44 \times 44 \\
&:= (5/5 + 5)^5 - ((5 + 5)/5)^5 \\
&:= 6 + ((6^{6-6/6}) - ((6 + 6)/6 + 6 \times 6)) \\
&:= (77/7 + 77)^{(7+7)/7} \\
&:= 88 \times 88 \\
&:= (99 - (99/9))^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7745 &:= 1 + ((11 \times (1 + 1)^{1+1+1})^{1+1}) \\
&:= 2/2 + (2 \times 2 \times 22)^2 \\
&:= 3 + (((3 + 3)^{3-3/3+3}) - (3/3 + 33)) \\
&:= 4/4 + (4 \times 44 \times 44) \\
&:= (5/5 + 5)^5 - ((5 \times 5 + 5/5) + 5) \\
&:= 6 + ((6^{6-6/6}) - (6 \times 6 + 6/6)) \\
&:= 7/7 + (((77/7 + 77)^{(7+7)/7}) \\
&:= 8/8 + 88 \times 88 \\
&:= 9/9 + ((99 - (99/9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7746 &:= 1 + (1 + ((11 \times (1 + 1)^{1+1+1})^{1+1})) \\
&:= 2 + (2 \times 2 \times 22)^2 \\
&:= 3 + (((3 + 3)^{3-3/3+3}) - 33) \\
&:= (4 + 4)/4 + (4 \times 44 \times 44) \\
&:= (5/5 + 5)^5 - (5 \times 5 + 5) \\
&:= 6 + (6 \times (6 \times 6 \times 6 \times 6 - 6)) \\
&:= 7 + ((7777 - 7 \times 7) + (77/7)) \\
&:= (8 + 8)/8 + 88 \times 88 \\
&:= (9 \times (9 \times 99 - (9 + 9))) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7747 &:= 1 + (1 + (1 + ((11 \times (1 + 1)^{1+1+1})^{1+1}))) \\
&:= 2 + ((2 \times 2 \times 22)^2 + 2/2) \\
&:= 3 + ((33 - 3/3) \times ((3^{3+3} - 3)/3)) \\
&:= 4 + ((4 \times 44 \times 44) - 4/4) \\
&:= 5/5 + ((5/5 + 5)^5 - (5 \times 5 + 5)) \\
&:= 6 + ((6 \times (6 \times 6 \times 6 \times 6 - 6)) + 6/6) \\
&:= 7 + (((77 + 7)/7 - 7 \times 7) + 7777) \\
&:= 88/8 + (88 \times 88 - 8) \\
&:= ((9 - 999)/9) + (9 \times (9 \times 99 - (9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7748 &:= (1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} - 111)) \\
&:= 2 + ((2 \times 2 \times 22)^2 + 2) \\
&:= (3^3 - 3/3) \times (3 \times 3 \times 33 + 3/3) \\
&:= 4 + (4 \times 44 \times 44) \\
&:= (5 + 5)/5 + ((5/5 + 5)^5 - (5 \times 5 + 5)) \\
&:= 6 + ((6 \times (6 \times 6 \times 6 \times 6 - 6)) + ((6 + 6)/6)) \\
&:= 7 + (((7 + 7) \times ((7 \times 77 + 7) + 7)) - 7/7) \\
&:= 88 \times 88 + 8 \times 8/(8 + 8) \\
&:= 9 \times 9 \times (99 + 9) - (999 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7749 &:= 1 + ((1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} - 111))) \\
&:= 2 + (((2 \times 2 \times 22)^2 + 2/2) + 2) \\
&:= ((3 + 3)^{3-3/3+3}) - 3^3 \\
&:= 4 + ((4 \times 44 \times 44) + 4/4) \\
&:= 5 + ((5/5 + 5)^5 - ((5 + 5)/5)^5) \\
&:= 6 + ((6^{6-6/6}) - (66 \times 6/(6 + 6))) \\
&:= 7 + ((7 + 7) \times ((7 \times 77 + 7) + 7)) \\
&:= 8 + ((88 \times 88 - (88/8)) + 8) \\
&:= 9 \times 9 \times (99 + 9) - 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7750 &:= (1 + 1) \times (1 + ((1 + 1) \times ((1 + 1)^{11} - 111))) \\
&:= 2 + (((2 \times 2 \times 22)^2 + 2) + 2) \\
&:= 3/3 + (((3 + 3)^{3-3/3+3}) - 3^3) \\
&:= 4 + ((4 \times 44 \times 44) + (4 + 4)/4) \\
&:= 5 \times (5 \times ((5 \times (55 + 5) + 5) + 5)) \\
&:= (6^{6-6/6}) + (((66 - 6)/6) - 6 \times 6) \\
&:= 7 + (((7 + 7) \times ((7 \times 77 + 7) + 7)) + 7/7) \\
&:= 8 + (88 \times 88 - ((8 + 8)/8)) \\
&:= 9/9 + (9 \times 9 \times (99 + 9) - 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7751 &:= 1 + ((1 + 1) \times (1 + ((1 + 1) \times ((1 + 1)^{11} - 111)))) \\
&:= (2 \times (2 \times ((2 \times 22)^2 + 2))) - 2/2 \\
&:= 3 + (((3^3 - 3/3) \times (3 \times 3 \times 33 + 3/3)) \\
&:= 4 + (((4 \times 44 \times 44) - 4/4) + 4) \\
&:= (5/5 + 5)^5 - 5 \times 5 \\
&:= 66/6 + (6 \times (6 \times 6 \times 6 \times 6 - 6)) \\
&:= 7 + ((77/7 + 77)^{(7+7)/7}) \\
&:= 8 + (88 \times 88 - 8/8) \\
&:= 9 + ((99 - 9/9) \times (9 \times 9 - ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7752 &:= (1 + 1) \times ((1 + 1) \times (1 + ((1 + 1)^{11} - 111))) \\
&:= 2 \times (2 \times ((2 \times 22)^2 + 2)) \\
&:= 3 + (((3 + 3)^{3-3/3+3}) - 3^3) \\
&:= 4 + ((4 \times 44 \times 44) + 4) \\
&:= 5/5 + ((5/5 + 5)^5 - 5 \times 5) \\
&:= 6 + ((6 \times (6 \times 6 \times 6 \times 6 - 6)) + 6) \\
&:= 7777 - (77/7 + 7 + 7) \\
&:= 8 + 88 \times 88 \\
&:= 9 + (((99 - (99/9))^{(9+9)/9}) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7753 &:= ((11 \times (11 - 1 - 1))^{1+1}) - (1 + 1)^{11} \\
&:= 2/2 + (2 \times (2 \times ((2 \times 22)^2 + 2))) \\
&:= 3 + (((3 + 3)^{3-3/3+3}) - 3^3) + 3/3 \\
&:= 4 + (((4 \times 44 + 44) + 4/4) + 4) \\
&:= (5 + 5)/5 + ((5/5 + 5)^5 - 5 \times 5) \\
&:= (6^{6-6/6}) - ((66/6 + 6) + 6) \\
&:= 77/7 + ((7 + 7) \times ((7 \times 77 + 7) + 7)) \\
&:= 8 + (88 \times 88 + 8/8) \\
&:= 9 + ((99 - (99/9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7754 &:= 11 + (((11 \times (1 + 1)^{1+1+1})^{1+1}) - 1) \\
&:= 2 + (2 \times (2 \times ((2 \times 22)^2 + 2))) \\
&:= 33 + ((3 \times (33 \times (3 \times 3^3 - 3))) - 3/3) \\
&:= (44 - 4)/4 + (4 \times 44 \times 44) \\
&:= (5/5 + 5)^5 - (55 + 55)/5 \\
&:= (6^{6-6/6}) - ((66 + 66)/6) \\
&:= 7777 - (((7 + 7)/7 + 7) + 7) + 7 \\
&:= 8 + (88 \times 88 + (8 + 8)/8) \\
&:= 9 + (((99 - (99/9))^{(9+9)/9}) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7755 &:= 11 + ((11 \times (1 + 1)^{1+1+1})^{1+1}) \\
&:= 22/2 + (2 \times 2 \times 22)^2 \\
&:= 33 + (3 \times (33 \times (3 \times 3^3 - 3))) \\
&:= 44/4 + (4 \times 44 \times 44) \\
&:= 5 + (5 \times (5 \times ((5 \times (55 + 5) + 5) + 5))) \\
&:= (6^{6-6/6}) + ((6 - (66 + 66))/6) \\
&:= 7777 - (7/7 + 7 + 7 + 7) \\
&:= 88/8 + 88 \times 88 \\
&:= 9 + ((9 \times (9 \times 99 - (9 + 9))) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7756 &:= 1 + (11 + ((11 \times (1 + 1)^{1+1+1})^{1+1})) \\
&:= 2 \times ((2 \times ((2 \times 22)^2 + 2)) + 2) \\
&:= (3/3 + 3 + 3) \times (3333/3 - 3) \\
&:= (4 \times (44 \times 44 + 4)) - 4 \\
&:= 5 + ((5/5 + 5)^5 - 5 \times 5) \\
&:= (6^{6-6/6}) - (((6 + 6)/6 + 6 + 6) + 6) \\
&:= 7777 - (7 + 7 + 7) \\
&:= 88 \times 88 + (88 + 8)/8 \\
&:= ((99 + 9) \times (9 \times 9 - 9)) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7757 &:= 1 + (1 + (11 + ((11 \times (1 + 1)^{1+1+1})^{1+1}))) \\
&:= 2 + ((2 \times 2 \times 22)^2 + 22/2) \\
&:= ((33/3 + 3 \times 3)^3) - 3 \times 3 \times 3^3 \\
&:= 4/4 + ((4 \times (44 \times 44 + 4)) - 4) \\
&:= 5 + (((5/5 + 5)^5 - 5 \times 5) + 5/5) \\
&:= (6^{6-6/6}) - ((6/6 + 6 + 6) + 6) \\
&:= 7/7 + (7777 - 7 - 7 - 7) \\
&:= 88 \times 88 + (88 + 8 + 8)/8 \\
&:= ((99 + 9) \times (9 \times 9 - 9)) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7758 &:= 1 + (1 + (1 + (11 + ((11 \times (1 + 1)^{1+1+1})^{1+1})))) \\
&:= 2 + (2 \times ((2 \times ((2 \times 22)^2 + 2)) + 2)) \\
&:= (3 + 3) \times (((3 + 3)^{3/3+3}) - 3) \\
&:= (4 \times (44 \times 44 + 4)) - (4 + 4)/4 \\
&:= 5 + (((5/5 + 5)^5 - 5 \times 5) + ((5 + 5)/5)) \\
&:= (6^{6-6/6}) - 6 - 6 - 6 \\
&:= 7777 - ((77 + 7)/7 + 7) \\
&:= 8 + ((88 \times 88 - ((8 + 8)/8)) + 8) \\
&:= (9 + 9) \times (((9 + 9)/9)^9) - 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7759 &:= 11 + ((1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} - 111))) \\
&:= 2 + (((2 \times 2 \times 22)^2 + 22/2) + 2) \\
&:= 3/3 + ((3 + 3) \times (((3 + 3)^{3/3+3}) - 3)) \\
&:= (4 \times (44 \times 44 + 4)) - 4/4 \\
&:= (5/5 + 5)^5 - (((55 + 5)/5) + 5) \\
&:= (6^{6-6/6}) - (66/6 + 6) \\
&:= 7777 - (77/7 + 7) \\
&:= 8 + ((88 \times 88 - 8/8) + 8) \\
&:= 9/9 + ((9 + 9) \times (((9 + 9)/9)^9) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7760 &:= (11 - 1) \times ((111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 1) \\
&:= 2 \times (2 \times ((2 \times 22)^2 + 2) + 2) \\
&:= (3/3 + 3) \times (((3 \times (3 + 3))^3 - 3)/3) - 3 \\
&:= 4 \times (44 \times 44 + 4) \\
&:= (5/5 + 5)^5 - (55/5 + 5) \\
&:= (6 - 66)/6 + ((6^{6-6/6}) - 6) \\
&:= ((7 - 77)/7) + (7777 - 7) \\
&:= 8 + (88 \times 88 + 8) \\
&:= (9/9 - 9 \times 9) \times (((9 + 9)/9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7761 &:= 1 + (11 - 1) \times ((111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 1) \\
&:= 2/2 + ((2 \times 2 \times 22)^2 + 2^{2+2}) \\
&:= 3 + ((3 + 3) \times (((3 + 3)^{3/3+3}) - 3)) \\
&:= 4/4 + (4 \times (44 \times 44 + 4)) \\
&:= (5/5 + 5)^5 - (5 + 5 + 5) \\
&:= (6^{6-6/6}) + (6 - 6 \times 6)/((6 + 6)/6) \\
&:= 7777 - (((7 + 7)/7 + 7) + 7) \\
&:= 8 + ((88 \times 88 + 8/8) + 8) \\
&:= (999/9 \times (9 \times 9 - 99/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7762 &:= ((1111 - (1 + 1)) \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 1 \\
&:= 2 + ((2 \times 2 \times 22)^2 + 2^{2+2}) \\
&:= ((3 + 3)^{3-3/3+3}) - (33/3 + 3) \\
&:= (4 + 4)/4 + (4 \times (44 \times 44 + 4)) \\
&:= 5/5 + ((5/5 + 5)^5 - (5 + 5 + 5)) \\
&:= (6^{6-6/6}) - ((6 + 6)/6 + 6 + 6) \\
&:= 7777 - (7/7 + 7 + 7) \\
&:= 8 + ((88 \times 88 + ((8 + 8)/8)) + 8) \\
&:= 9 + (((99 - (99/9))^{(9+9)/9}) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7763 &:= (1111 - (1 + 1)) \times (1 + ((1 + 1) \times (1 + 1 + 1))) \\
&:= 22 + ((2 \times 2 \times 22)^2 - (2/2 + 2)) \\
&:= 3 + ((3/3 + 3) \times (((3 \times (3 + 3))^3 - 3)/3) - 3) \\
&:= 4 + ((4 \times (44 \times 44 + 4)) - 4/4) \\
&:= (5/5 + 5)^5 - (55 + 5 + 5)/5 \\
&:= (6^{6-6/6}) - (6/6 + 6 + 6) \\
&:= 7777 - (7 + 7) \\
&:= 8 + (88 \times 88 + (88/8)) \\
&:= 9 \times 9 \times 99 - (((9 + 9)/9)^{9-9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7764 &:= 1 + ((1111 - (1 + 1)) \times (1 + ((1 + 1) \times (1 + 1 + 1)))) \\
&:= 22 + ((2 \times 2 \times 22)^2 - 2) \\
&:= (3/3 + 3) \times ((3 \times 3 \times (3 + 3)^3) - 3) \\
&:= 4 + (4 \times (44 \times 44 + 4)) \\
&:= (5/5 + 5)^5 - (55 + 5)/5 \\
&:= (6^{6-6/6}) - 6 - 6 \\
&:= 7/7 + (7777 - 7 - 7) \\
&:= 8 + (88 \times 88 + ((88 + 8)/8)) \\
&:= (99 + 9)/9 \times (9 \times (9 \times 9 - 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7765 &:= (((1 + 1) \times (1 + 1 + 1))^{1+1+1+1+1}) - 11 \\
&:= 22 + ((2 \times 2 \times 22)^2 - 2/2) \\
&:= ((3 + 3)^{3-3/3+3}) - 33/3 \\
&:= 4 + ((4 \times (44 \times 44 + 4)) + 4/4) \\
&:= (5/5 + 5)^5 - 55/5 \\
&:= (6^{6-6/6}) - 66/6 \\
&:= 7777 - (77 + 7)/7 \\
&:= 8 + ((88 + 8 + 8)/8 + 88 \times 88) \\
&:= ((99 + 9) \times (9 \times 9 - 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7766 &:= (1111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 11 \\
&:= 22 + (2 \times 2 \times 22)^2 \\
&:= ((3 - 33)/3) + ((3 + 3)^{3-3/3+3}) \\
&:= 4 + ((4 \times (44 \times 44 + 4)) + (4 + 4)/4) \\
&:= (5/5 + 5)^5 - 5 - 5 \\
&:= (6 - 66)/6 + (6^{6-6/6}) \\
&:= 7777 - 77/7 \\
&:= 88/8 \times (((8 + 8)/8) + 8 \times 88) \\
&:= ((99 + 9) \times (9 \times 9 - 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7767 &:= 1 + ((1111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 11) \\
&:= 22 + ((2 \times 2 \times 22)^2 + 2/2) \\
&:= 3 \times ((3^3 \times (3 \times 33 - 3)) - 3) \\
&:= 4 + (((4 \times (44 \times 44 + 4)) - 4/4) + 4) \\
&:= 5/5 + ((5/5 + 5)^5 - (5 + 5)) \\
&:= (6^{6-6/6}) + (((6 - 66) + 6)/6) \\
&:= ((7 - 77)/7) + 7777 \\
&:= 8 + (((88 \times 88 - 8/8) + 8) + 8) \\
&:= ((99 + 9) \times (9 \times 9 - 9)) - 9
\end{aligned}$$

- **7768** := $(1+1) \times ((111 \times (1+(1+11 \times (1+1+1)))) - 1)$
:= $2 + ((2 \times 2 \times 22)^2 + 22)$
:= $3 + (((3+3)^{3-3/3+3}) - 33/3)$
:= $4 + ((4 \times (44 \times 44 + 4)) + 4)$
:= $(5+5)/5 + ((5/5+5)^5 - (5+5))$
:= $(6^{6-6/6}) - ((6+6)/6+6)$
:= $7777 - ((7+7)/7+7)$
:= $8 + (88 \times 88 + 8 + 8)$
:= $9/9 + (((99+9) \times (9 \times 9 - 9)) - 9)$
- **7773** := $((1+1) \times (1+1+1))^{1+1+1+1+1} - 1 - 1 - 1$
:= $((2+2+2)^{2/2+2+2}) - 2/2 - 2$
:= $((3+3)^{3-3/3+3}) - 3$
:= $44 + ((4 \times (44 \times 44 - 4)) + 4/4)$
:= $(5+5)/5 + ((5/5+5)^5 - 5)$
:= $(6^{6-6/6}) - 6 \times 6/(6+6)$
:= $7 + (7777 - (77/7))$
:= $8 + (((88+8+8)/8 + 88 \times 88) + 8)$
:= $((99+9) \times (9 \times 9 - 9)) - (9+9+9)/9$
- **7778** := $1 + (1111 \times (1 + ((1+1) \times (1+1+1))))$
:= $2 + ((2+2+2)^{2/2+2+2})$
:= $3 + (((3+3)^{3-3/3+3}) - 3/3)$
:= $(4+4)/4 + (4 \times ((44 \times 44 + 4) + 4))$
:= $(5+5)/5 + (5/5+5)^5$
:= $(6+6)/6 + (6^{6-6/6})$
:= $7/7 + 7777$
:= $8 + ((8-8/8) \times (8888 - 8)/8)$
:= $(9+9)/9 + ((99+9) \times (9 \times 9 - 9))$
- **7769** := $(111 \times ((11-1-1)^{1+1} - 11)) - 1$
:= $2 + (((2 \times 2 \times 22)^2 + 22) + 2/2)$
:= $((3+3)^{3-3/3+3}) - (3/3+3+3)$
:= $4 + (((4 \times (44 \times 44 + 4)) + 4/4) + 4)$
:= $(5/5+5)^5 - ((5+5)/5+5)$
:= $(6^{6-6/6}) - 6/6 - 6$
:= $7777 - (7/7+7)$
:= $8 + (((88 \times 88 + 8/8) + 8) + 8)$
:= $9 + ((9/9 - 9 \times 9) \times (((9+9)/9) - 99))$
- **7774** := $((1+1) \times (1+1+1))^{1+1+1+1+1} - 1 - 1$
:= $((2+2+2)^{2/2+2+2}) - 2$
:= $3/3 + (((3+3)^{3-3/3+3}) - 3)$
:= $(4 \times ((44 \times 44 + 4) + 4)) - (4+4)/4$
:= $(5/5+5)^5 - (5+5)/5$
:= $(6^{6-6/6}) - (6+6)/6$
:= $7777 - (7+7+7)/7$
:= $8 + ((88+88)/8 + 88 \times 88)$
:= $((99+9) \times (9 \times 9 - 9)) - (9+9)/9$
- **7779** := $1 + (1 + (1111 \times (1 + ((1+1) \times (1+1+1))))$
:= $2 + (((2+2+2)^{2/2+2+2}) + 2/2)$
:= $3 + ((3+3)^{3-3/3+3})$
:= $4 + ((4 \times ((44 \times 44 + 4) + 4)) - 4/4)$
:= $5 + ((5/5+5)^5 - ((5+5)/5))$
:= $(6^{6-6/6}) + (6 \times 6/(6+6))$
:= $(7+7)/7 + 7777$
:= $8 + (((88 \times 88 + (88/8)) + 8) + 8)$
:= $9 + (999/9 \times (9 \times 9 - 99/9))$
- **7770** := $111 \times ((11-1-1)^{1+1} - 11)$
:= $2 + (((2 \times 2 \times 22)^2 + 22) + 2)$
:= $((3+3)^{3-3/3+3}) - 3 - 3$
:= $(44-4)/4 + (4 \times (44 \times 44 + 4))$
:= $(5/5+5)^5 - (5/5+5)$
:= $(6^{6-6/6}) - 6$
:= $7777 - 7$
:= $(8-8/8) \times (8888 - 8)/8$
:= $999/9 \times (9 \times 9 - 99/9)$
- **7775** := $((1+1) \times (1+1+1))^{1+1+1+1+1} - 1$
:= $((2+2+2)^{2/2+2+2}) - 2/2$
:= $((3+3)^{3-3/3+3}) - 3/3$
:= $(4 \times ((44 \times 44 + 4) + 4)) - 4/4$
:= $(5/5+5)^5 - 5/5$
:= $(6^{6-6/6}) - 6/6$
:= $7777 - (7+7)/7$
:= $8 + (((88 \times 88 - 8/8) + 8) + 8) + 8)$
:= $((99+9) \times (9 \times 9 - 9)) - 9/9$
- **7780** := $1 + (1 + (1 + (1111 \times (1 + ((1+1) \times (1+1+1))))$
:= $2 + (((2+2+2)^{2/2+2+2}) + 2)$
:= $3 + (((3+3)^{3-3/3+3}) + 3/3)$
:= $4 + (4 \times ((44 \times 44 + 4) + 4))$
:= $5 + ((5/5+5)^5 - 5/5)$
:= $6 + ((6^{6-6/6}) - ((6+6)/6))$
:= $7777 + (7+7+7)/7$
:= $88 \times 88 + ((8 \times 8 + 8)/(8+8)/8)$
:= $9 \times 99 + (((9+9)/9) + 9 \times 9)^{(9+9)/9}$
- **7771** := $1 + (111 \times ((11-1-1)^{1+1} - 11))$
:= $2 + (((2 \times 2 \times 22)^2 + 22) + 2/2) + 2)$
:= $3/3 + (((3+3)^{3-3/3+3}) - (3+3))$
:= $44/4 + (4 \times (44 \times 44 + 4))$
:= $(5/5+5)^5 - 5$
:= $6/6 + ((6^{6-6/6}) - 6)$
:= $7/7 + (7777 - 7)$
:= $8 + ((88 \times 88 + (88/8)) + 8)$
:= $9 + (((99 - (99/9))^{(9+9)/9}) + 9) + 9)$
- **7776** := $((1+1) \times (1+1+1))^{1+1+1+1+1}$
:= $(2+2+2)^{2/2+2+2}$
:= $(3+3)^{3-3/3+3}$
:= $4 \times ((44 \times 44 + 4) + 4)$
:= $(5/5+5)^5$
:= $6^{6-6/6}$
:= $7777 - 7/7$
:= $8 + ((88 \times 88 + 8 + 8) + 8)$
:= $(99+9) \times (9 \times 9 - 9)$
- **7781** := $11 + (111 \times ((11-1-1)^{1+1} - 11))$
:= $2 + (((2+2+2)^{2/2+2+2}) + 2/2) + 2)$
:= $3 + (((3+3)^{3-3/3+3}) - 3/3) + 3)$
:= $4 + ((4 \times ((44 \times 44 + 4) + 4)) + 4/4)$
:= $5 + (5/5+5)^5$
:= $6 + ((6^{6-6/6}) - 6/6)$
:= $77/7 + (7777 - 7)$
:= $88 \times 88 + 888/(8+8+8)$
:= $9 \times 999 - (9999/9+99)$
- **7772** := $1 + (1 + (111 \times ((11-1-1)^{1+1} - 11)))$
:= $2 \times ((2 \times (2 \times (2 \times (22^2 + 2)))) - 2)$
:= $(3/3+3) \times (((3 \times (3+3))^3 - 3)/3)$
:= $44 + (4 \times (44 \times 44 - 4))$
:= $5/5 + ((5/5+5)^5 - 5)$
:= $(6+6)/6 + ((6^{6-6/6}) - 6)$
:= $(7+7)/7 + (7777 - 7)$
:= $8 + ((88 \times 88 + ((88+8)/8)) + 8)$
:= $9 + (9 \times 9 \times 99 - (((9+9)/9)^{9-9/9}))$
- **7777** := $1111 \times (1 + ((1+1) \times (1+1+1)))$
:= $2/2 + ((2+2+2)^{2/2+2+2})$
:= $3/3 + ((3+3)^{3-3/3+3})$
:= $4/4 + (4 \times ((44 \times 44 + 4) + 4))$
:= $5/5 + (5/5+5)^5$
:= $6/6 + (6^{6-6/6})$
:= 7777
:= $(8-8/8) \times 8888/8$
:= $9/9 + ((99+9) \times (9 \times 9 - 9))$
- **7782** := $11 \times 111 + ((1+1+1)^{(1+1) \times (1+1+1)})$
:= $2 + (((2+2+2)^{2/2+2+2}) + 2) + 2)$
:= $3 + (((3+3)^{3-3/3+3}) + 3)$
:= $4 + ((4 \times ((44 \times 44 + 4) + 4)) + (4+4)/4)$
:= $5 + ((5/5+5)^5 + 5/5)$
:= $6 + (6^{6-6/6})$
:= $7 + (7777 - ((7+7)/7))$
:= $8 + (((88+88)/8 + 88 \times 88) + 8)$
:= $9 + (((99+9) \times (9 \times 9 - 9)) - ((9+9+9)/9))$

$$\begin{aligned}
\blacktriangleright 7783 &:= ((1 + 1111) \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 1 \\
&:= 2 \times (22 - 2) + ((2 \times 2 \times 22)^2 - 2/2) \\
&:= 3 + (((3 + 3)^{3-3/3+3}) + 3/3) + 3 \\
&:= 44 + (4 \times 44 \times 44) - (4/4 + 4) \\
&:= 5 + ((5/5 + 5)^5 + ((5 + 5)/5)) \\
&:= 6 + ((6^{6-6/6}) + 6/6) \\
&:= 7 + (7777 - 7/7) \\
&:= 8 + (((88 \times 88 - 8/8) + 8) + 8) + 8 \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) - (9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7788 &:= 11 + (1111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) \\
&:= 2 \times ((2 \times (2 \times 22)^2) + 22) \\
&:= (3 + 3) \times ((33/3)^3 - 33) \\
&:= 44 + (4 \times 44 \times 44) \\
&:= (5/5 + 5)^5 + (55 + 5)/5 \\
&:= 6 + ((6^{6-6/6}) + 6) \\
&:= 77/7 + 7777 \\
&:= 88 \times 88 + (88/((8 + 8)/8)) \\
&:= (99 + 9)/9 + ((99 + 9) \times (9 \times 9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7793 &:= 1 + (1 + ((1 + ((1 + 1) \times (1 + 1 + 1))) \times (1 + (1 + 1111)))) \\
&:= 2 + (((2 \times 2 \times 22 - 2/2)^2) + 222) \\
&:= ((3 + 3) \times (((3 + 3)^{3/3+3}) + 3)) - 3/3 \\
&:= 4 + (((4 \times 44 \times 44) + 44) + 4/4) \\
&:= 5 + ((5/5 + 5)^5 + ((55 + 5)/5)) \\
&:= 6 + ((6^{6-6/6}) + (66/6)) \\
&:= 7 + ((7777 + ((7 + 7)/7)) + 7) \\
&:= 8 + (((8 - 8/8) \times 8888/8) + 8) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) - 9/9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7784 &:= (1 + 1111) \times (1 + ((1 + 1) \times (1 + 1 + 1))) \\
&:= 2 \times (((2 \times (2 \times 22)^2) - 2) + 22) \\
&:= ((33/3 + 3 \times 3)^3) - (3 + 3)^3 \\
&:= 44 + (4 \times 44 \times 44) - 4 \\
&:= 5 + (((5/5 + 5)^5 - ((5 + 5)/5)) + 5) \\
&:= 6 + ((6^{6-6/6}) + ((6 + 6)/6)) \\
&:= 7 + 7777 \\
&:= 8 + (((88 \times 88 + 8 + 8) + 8) + 8) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7789 &:= 1 + (11 + (1111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) \\
&:= 2/2 + ((2 \times 2 \times 22)^2 + 2 \times 22) \\
&:= 3/3 + ((3 + 3) \times ((33/3)^3 - 33)) \\
&:= 44 + ((4 \times 44 \times 44) + 4/4) \\
&:= (5/5 + 5)^5 + (55 + 5 + 5)/5 \\
&:= 6 + (((6^{6-6/6}) + 6/6) + 6) \\
&:= 7777 + (77 + 7)/7 \\
&:= 8 \times 8 + (88 \times 88 - (88/8 + 8)) \\
&:= ((99 + 9 + 9)/9) + ((99 + 9) \times (9 \times 9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7794 &:= 11 + (((1 + 1111) \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 1) \\
&:= 2 + ((2 \times 2 \times 22)^2 + 2 \times (22 + 2)) \\
&:= (3 + 3) \times (((3 + 3)^{3/3+3}) + 3) \\
&:= 4 + (((4 \times 44 \times 44) + (4 + 4)/4) + 44) \\
&:= 5 + ((55 + 5 + 5)/5 + (5/5 + 5)^5) \\
&:= 6 + (((6^{6-6/6}) + 6) + 6) \\
&:= 7 + (7777 + ((77 - 7)/7)) \\
&:= 8 \times 8 + (88 \times 88 - (8 + 8)) + ((8 + 8)/8) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7785 &:= 1 + ((1 + 1111) \times (1 + ((1 + 1) \times (1 + 1 + 1)))) \\
&:= 2/2 + ((2 \times 2 \times 22)^2 + 2 \times (22 - 2)) \\
&:= 3 \times (3^3 \times (3 \times 33 - 3)) + 3 \\
&:= 44 + ((4 \times 44 \times 44) - 4) + 4/4 \\
&:= 5 + (((5/5 + 5)^5 - 5/5) + 5) \\
&:= 6 + ((6^{6-6/6}) + (6 \times 6/(6 + 6))) \\
&:= 7 + (7777 + 7/7) \\
&:= 8 + ((8 - 8/8) \times 8888/8) \\
&:= 9 + ((99 + 9) \times (9 \times 9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7790 &:= ((1 + ((1 + 1) \times (1 + 1 + 1))) \times (1 + (1 + 1111))) - 1 \\
&:= 2 + ((2 \times 2 \times 22)^2 + 2 \times 22) \\
&:= 3 + (((3 + 3)^{3-3/3+3}) + 33/3) \\
&:= 44 + ((4 \times 44 \times 44) + (4 + 4)/4) \\
&:= 5 + (((5/5 + 5)^5 - 5/5) + 5) + 5 \\
&:= 6 + (((6^{6-6/6}) + ((6 + 6)/6)) + 6) \\
&:= 7 + (7777 - 7/7) + 7 \\
&:= 8 \times 8 + (((8 - 88)/8 - 8) + 88 \times 88) \\
&:= (9/9 + 9) \times (9 \times 99 - ((999 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7795 &:= 11 + ((1 + 1111) \times (1 + ((1 + 1) \times (1 + 1 + 1)))) \\
&:= (2 \times ((2 \times ((2 \times 22)^2 + 2)) + 22)) - 2/2 \\
&:= 3/3 + ((3 + 3) \times (((3 + 3)^{3/3+3}) + 3)) \\
&:= 4 + (((4 \times 44 \times 44) - 4/4) + 44) + 4 \\
&:= (5 \times (5 \times (5^5 - 5)/(5 + 5))) - 5 \\
&:= 6 + (((6^{6-6/6}) + 6/6) + 6) + 6 \\
&:= 7 + (7777 + (77/7)) \\
&:= 8 \times 8 + 88 \times 88 - (88 + 8 + 8)/8 \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + 9/9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7786 &:= 1 + (1 + ((1 + 1111) \times (1 + ((1 + 1) \times (1 + 1 + 1)))) \\
&:= 2 \times 22 + ((2 \times 2 \times 22)^2 - 2) \\
&:= 3 \times 3 + (((3 + 3)^{3-3/3+3}) + 3/3) \\
&:= 44 + ((4 \times 44 \times 44) - (4 + 4)/4) \\
&:= 5 + ((5/5 + 5)^5 + 5) \\
&:= (6^{6-6/6}) + (66 - 6)/6 \\
&:= 7 + (7777 + ((7 + 7)/7)) \\
&:= 8 + (((8 - 8/8) \times (8888 - 8)/8) + 8) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7791 &:= (1 + ((1 + 1) \times (1 + 1 + 1))) \times (1 + (1 + 1111)) \\
&:= 222 + ((2 \times 2 \times 22 - 2/2)^2) \\
&:= 3 + ((3 + 3) \times ((33/3)^3 - 33)) \\
&:= 4 + (((4 \times 44 \times 44) - 4/4) + 44) \\
&:= 5 + (((5/5 + 5)^5 + 5) + 5) \\
&:= 6 + (((6^{6-6/6}) + (6 \times 6/(6 + 6))) + 6) \\
&:= 7 + (7777 + 7) \\
&:= 8 \times 8 + (88 \times 88 - (8/8 + 8 + 8)) \\
&:= (9 - (9 + 9)/9) \times (((9999 + 9) + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7796 &:= 1 + (11 + ((1 + 1111) \times (1 + ((1 + 1) \times (1 + 1 + 1)))) \\
&:= 2 \times ((2 \times ((2 \times 22)^2 + 2)) + 22) \\
&:= 3 + (((3 + 3) \times (((3 + 3)^{3/3+3}) + 3)) - 3/3) \\
&:= 4 + (((4 \times 44 \times 44) + 44) + 4) \\
&:= 5 \times 5 + ((5/5 + 5)^5 - 5) \\
&:= 6 + (((6^{6-6/6}) + ((6 + 6)/6)) + 6) + 6 \\
&:= 7 + (7777 + (77 + 7)/7) \\
&:= 8 + ((88/((8 + 8)/8)) + 88 \times 88) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7787 &:= 11 + (((1 + 1) \times (1 + 1 + 1))^{1+1+1+1+1}) \\
&:= 22/2 + ((2 + 2 + 2)^{2/2+2+2}) \\
&:= 33/3 + ((3 + 3)^{3-3/3+3}) \\
&:= 44 + ((4 \times 44 \times 44) - 4/4) \\
&:= 55/5 + (5/5 + 5)^5 \\
&:= 66/6 + (6^{6-6/6}) \\
&:= 7777 + (77 - 7)/7 \\
&:= 8 + (((88 \times 88 + (88/8)) + 8) + 8) + 8 \\
&:= 99/9 + ((99 + 9) \times (9 \times 9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7792 &:= 1 + ((1 + ((1 + 1) \times (1 + 1 + 1))) \times (1 + (1 + 1111))) \\
&:= 2 \times (((2 \times (2 \times 22)^2) + 22) + 2) \\
&:= (3/3 + 3) \times (((3 \times (3 + 3))^3 + 3)/3) + 3 \\
&:= 4 + ((4 \times 44 \times 44) + 44) \\
&:= 5 + ((5/5 + 5)^5 + (55/5)) \\
&:= 6 + ((6^{6-6/6}) + ((66 - 6)/6)) \\
&:= 7 + (7777 + 7/7) + 7 \\
&:= 8 \times 8 + (88 \times 88 - (8 + 8)) \\
&:= (9 - 9/9) \times (9 \times (99 + 9) + (9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7797 &:= (1 + 1 + 1) \times ((1 + (11 + 11)) \times (1 + 1 + 111)) \\
&:= 22 + (((2 + 2 + 2)^{2/2+2+2}) - 2/2) \\
&:= 3 + ((3 + 3) \times (((3 + 3)^{3/3+3}) + 3)) \\
&:= (4 \times 44 \times 44) + (4^4 - 44)/4 \\
&:= 5 + (((5/5 + 5)^5 + (55/5)) + 5) \\
&:= (6^{6-6/6}) + ((6 \times 6 + 6)/(6 + 6)/6) \\
&:= 7 + (((7777 - 7/7) + 7) + 7) \\
&:= 8 \times 8 + (88 \times 88 - (88/8)) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + (99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7798 &:= (1 + (1 + 1 + 11)) \times (1 + ((1 + 1111)/(1 + 1))) \\
&:= 22 + ((2 + 2 + 2)^{2/2+2+2}) \\
&:= (3/3 + 3 + 3) \times (3333/3 + 3) \\
&:= 44 + ((4 \times 44 \times 44) + (44 - 4)/4) \\
&:= (5/5 + 5)^5 + (55 + 55)/5 \\
&:= (6^{6-6/6}) + ((66 + 66)/6) \\
&:= 7 + (7777 + 7 + 7) \\
&:= 8 \times 8 + (88 \times 88 + (8 - 88)/8) \\
&:= ((99 + 99)/9) + ((99 + 9) \times (9 \times 9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7799 &:= 11 \times (11 \times 111 - (1 + 1)^{11-1-1}) \\
&:= 22 + (((2 + 2 + 2)^{2/2+2+2}) + 2/2) \\
&:= 3^3 + ((3/3 + 3) \times (((3 \times (3 + 3))^3 - 3)/3)) \\
&:= 44 + ((4 \times 44 \times 44) + 44/4) \\
&:= 5 \times 5 + ((5/5 + 5)^5 - ((5 + 5)/5)) \\
&:= 6 + (((6^{6-6/6}) + (66/6)) + 6) \\
&:= 7 + (((7777 + 7/7) + 7) + 7) \\
&:= 8 \times 8 + (88 \times 88 - (8/8 + 8)) \\
&:= 99/9 \times (9 \times 9 \times 9 - (99/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7800 &:= (11 - 1)^{1+1} \times (111 - (11 \times (1 + 1 + 1))) \\
&:= 2 + (((2 + 2 + 2)^{2/2+2+2}) + 22) \\
&:= 3^3 + (((3 + 3)^{3-3/3+3}) - 3) \\
&:= 44 + ((4 \times (44 \times 44 + 4)) - 4) \\
&:= 5 \times (5 \times (5^5 - 5)/(5 + 5)) \\
&:= 6 + (((6^{6-6/6}) + 6) + 6) + 6 \\
&:= 7 + (((7777 + ((7 + 7)/7)) + 7) + 7) \\
&:= 8 \times 8 + (88 \times 88 - 8) \\
&:= (9/9 + 9) \times (9 \times 99 - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7801 &:= 1 + ((11 - 1)^{1+1} \times (111 - (11 \times (1 + 1 + 1)))) \\
&:= 2 + (((2 + 2 + 2)^{2/2+2+2}) + 22) + 2/2) \\
&:= 3 + ((3/3 + 3 + 3) \times (3333/3 + 3)) \\
&:= 4 + ((4 \times 44 \times 44) + (4^4 - 44)/4) \\
&:= 5 \times 5 + (5/5 + 5)^5 \\
&:= 6 \times 6 + ((6^{6-6/6}) - (66/6)) \\
&:= 7 + (7777 + ((77 - 7)/7)) + 7) \\
&:= 8/8 + ((88 \times 88 - 8) + 8 \times 8) \\
&:= 9 + ((9 - 9/9) \times (9 \times (99 + 9) + ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7802 &:= 11 + ((1 + ((1 + 1) \times (1 + 1 + 1))) \times (1 + (1 + 111))) \\
&:= 2 + (((2 + 2 + 2)^{2/2+2+2}) + 22) + 2) \\
&:= 3^3 + (((3 + 3)^{3-3/3+3}) - 3/3) \\
&:= 44 + ((4 \times (44 \times 44 + 4)) - (4 + 4)/4) \\
&:= 5 \times 5 + ((5/5 + 5)^5 + 5/5) \\
&:= 6 \times 6 + (((6 - 66)/6) + (6^{6-6/6})) \\
&:= 7 + (7777 + (77/7)) + 7) \\
&:= 8 \times 8 + ((88 \times 88 - 8) + ((8 + 8)/8)) \\
&:= (((9 + 9)/9)^9) + 9 \times 9 \times (9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7803 &:= (1 + 1 + 1) \times ((1 + ((11 - 1)^{1+1}/(1 + 1)))^{1+1}) \\
&:= (2/2 + 2) \times (((2 \times (22 + 2) + 2/2) + 2)^2) \\
&:= 3^3 + ((3 + 3)^{3-3/3+3}) \\
&:= 44 + ((4 \times (44 \times 44 + 4)) - 4/4) \\
&:= 5 \times 5 + ((5/5 + 5)^5 + ((5 + 5)/5)) \\
&:= (6^{6-6/6}) + ((66 \times 6/(6 + 6)) - 6) \\
&:= 7 + (7777 + (77 + 7)/7) + 7) \\
&:= 8 \times 8 + ((88 \times 88 - (8 + 8)) + (88/8)) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7804 &:= 1 + ((1 + 1 + 1) \times ((1 + ((11 - 1)^{1+1}/(1 + 1)))^{1+1})) \\
&:= 2 \times ((2 \times (((2 \times 22)^2 + 2) + 2)) + 22) \\
&:= 3^3 + (((3 + 3)^{3-3/3+3}) + 3/3) \\
&:= 44 + (4 \times (44 \times 44 + 4)) \\
&:= 5 + (((5/5 + 5)^5 - ((5 + 5)/5)) + 5 \times 5) \\
&:= 6 + (((66 + 66)/6) + (6^{6-6/6})) \\
&:= 7 + (((7777 - 7/7) + 7) + 7) + 7) \\
&:= 8 \times 8 + (88 \times 88 - 8 \times 8/(8 + 8)) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7805 &:= (1 + (1 + 1) \times 111) \times (1 + (1 + 11 \times (1 + 1 + 1))) \\
&:= (222 + 2/2) \times ((22/2 + 22) + 2) \\
&:= ((33 - 3/3) \times ((3^{3+3} + 3)/3)) - 3 \\
&:= 44 + ((4 \times (44 \times 44 + 4)) + 4/4) \\
&:= 5 + (5 \times (5 \times (5^5 - 5)/(5 + 5))) \\
&:= 6 \times 6 + ((6^{6-6/6}) - (6/6 + 6)) \\
&:= 7 + (7777 + 7 + 7) + 7) \\
&:= 8 + ((88 \times 88 - (88/8)) + 8 \times 8) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7806 &:= 1 + ((1 + (1 + 1) \times 111) \times (1 + (1 + 11 \times (1 + 1 + 1)))) \\
&:= (2^{2+2} \times (22^2 + 2 + 2)) - 2 \\
&:= 3 + (((3 + 3)^{3-3/3+3}) + 3^3) \\
&:= (4^4 - 4 - 4)/4 + (4 \times 44 \times 44) \\
&:= 5 + ((5/5 + 5)^5 + 5 \times 5) \\
&:= 6 \times 6 + ((6^{6-6/6}) - 6) \\
&:= 7 + (((7777 + 7/7) + 7) + 7) + 7) \\
&:= 8 \times 8 + (88 \times 88 - ((8 + 8)/8)) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + (99 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7807 &:= (111/(1 + 1 + 1)) \times ((1 + 1) \times 111 - 11) \\
&:= (2^{2+2} \times (22^2 + 2 + 2)) - 2/2 \\
&:= 3 + (((3 + 3)^{3-3/3+3}) + 3^3) + 3/3) \\
&:= ((4^4 - 4)/4) + (4 \times 44 \times 44) \\
&:= 5 + (((5/5 + 5)^5 + 5 \times 5) + 5/5) \\
&:= 6 \times 6 + (((6^{6-6/6}) - 6) + 6/6) \\
&:= 7 + (((7777 + ((7 + 7)/7)) + 7) + 7) + 7) \\
&:= 8 \times 8 + (88 \times 88 - 8/8) \\
&:= 9 + (((99 + 9) \times (9 \times 9 - 9)) + ((99 + 99)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7808 &:= (1 + 11^{1+1}) \times ((1 + 1)^{(1+1) \times (1+1+1)}) \\
&:= 2^{2+2} \times (22^2 + 2 + 2) \\
&:= (33 - 3/3) \times ((3^{3+3} + 3)/3) \\
&:= 4 \times (44 \times 44 + 4 \times 4) \\
&:= (5/5 + 5)^5 + ((5 + 5)/5)^5 \\
&:= 6 \times 6 + (((6^{6-6/6}) - 6) + ((6 + 6)/6)) \\
&:= 7 \times 7 + (7777 - (77/7 + 7)) \\
&:= 8 \times (888 + 88) \\
&:= 9 + ((99/9) \times (9 \times 9 \times 9 - (99/9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7809 &:= 1 + ((1 + 11^{1+1}) \times ((1 + 1)^{(1+1) \times (1+1+1)})) \\
&:= 2/2 + (2^{2+2} \times (22^2 + 2 + 2)) \\
&:= 33 + ((3 + 3)^{3-3/3+3}) \\
&:= 4/4 + (4 \times (44 \times 44 + 4 \times 4)) \\
&:= 5/5 + ((5/5 + 5)^5 + ((5 + 5)/5)^5) \\
&:= (6^{6-6/6}) + (66 \times 6/(6 + 6)) \\
&:= 7 + (((7777 + (77/7)) + 7) + 7) \\
&:= 8/8 + (88 \times 88 + 8 \times 8) \\
&:= 9 \times 9 \times 99 - (999/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7810 &:= (111 - 1) \times (((1 + 11)^{1+1}/(1 + 1)) - 1) \\
&:= 2 + (2^{2+2} \times (22^2 + 2 + 2)) \\
&:= 3/3 + (((3 + 3)^{3-3/3+3}) + 33) \\
&:= (4 + 4)/4 + (4 \times (44 \times 44 + 4 \times 4)) \\
&:= 5 \times ((5^5 - 5/5)/(5 + 5/5)) \\
&:= 6 \times 6 + ((6^{6-6/6}) - ((6 + 6)/6)) \\
&:= (777 - 7)/7 \times ((7/7 - 7) + 77) \\
&:= 8 \times 8 + (88 \times 88 + ((8 + 8)/8)) \\
&:= 99/9 \times (9 \times 9 \times 9 - (9/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7811 &:= 1 + ((111 - 1) \times (((1 + 11)^{1+1}/(1 + 1)) - 1)) \\
&:= 2 + ((2^{2+2} \times (22^2 + 2 + 2)) + 2/2) \\
&:= 3 + ((33 - 3/3) \times ((3^{3+3} + 3)/3)) \\
&:= 4 + ((4 \times 44 \times 44) + ((4^4 - 4)/4)) \\
&:= 5 + (((5/5 + 5)^5 + 5 \times 5) + 5) \\
&:= 6 \times 6 + ((6^{6-6/6}) - 6/6) \\
&:= 7 \times 7 + (7777 - (7/7 + 7 + 7)) \\
&:= 8 \times 8 + ((88 \times 88 - 8) + (88/8)) \\
&:= 9 + (9 \times 9 \times (9 \times 9 + 9) + ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7812 &:= (((1 + ((1 + 1) \times (1 + 11)))^{1+1+1}) - 1)/(1 + 1) \\
&:= 2 + ((2^{2+2} \times (22^2 + 2 + 2)) + 2) \\
&:= 3 \times (3333 - 3^3+3) \\
&:= 4 + (4 \times (44 \times 44 + 4 \times 4)) \\
&:= 5 \times 5 + ((5/5 + 5)^5 + (55/5)) \\
&:= 6 \times (6 \times 6 \times 6 \times 6 + 6) \\
&:= 7 \times 7 + (7777 - 7 - 7) \\
&:= 8 \times 8 + (88 \times 88 + 8 \times 8/(8 + 8)) \\
&:= (99 \times (9 \times 9 - ((9 + 9)/9))) - 9
\end{aligned}$$

- ▶ **7813** := $(1 + ((1 + ((1 + 1) \times (1 + 11)))^{1+1+1}))/ (1 + 1)$
:= $2 + (((2^{2+2} \times (22^2 + 2 + 2)) + 2/2) + 2)$
:= $3/3 + (3 \times (3333 - 3^{3+3}))$
:= $4 + ((4 \times (44 \times 44 + 4 \times 4)) + 4/4)$
:= $5 + ((5/5 + 5)^5 + ((5 + 5)/5)^5)$
:= $6 \times 6 + ((6^{6-6/6}) + 6/6)$
:= $7/7 + ((7777 - 7 - 7) + 7 \times 7)$
:= $88 + (88 \times 88 - (88/8 + 8))$
:= $9/9 + ((99 \times (9 \times 9 - ((9 + 9)/9))) - 9)$
- ▶ **7814** := $1 + ((1 + ((1 + ((1 + 1) \times (1 + 11)))^{1+1+1}))/ (1 + 1)$
:= $2 + (((2^{2+2} \times (22^2 + 2 + 2)) + 2) + 2)$
:= $3 + (((33 - 3/3) \times ((3^{3+3} + 3)/3)) + 3)$
:= $4 + ((4 \times (44 \times 44 + 4 \times 4)) + (4 + 4)/4)$
:= $(5 \times (5 \times (5^5 + 5)/(5 + 5))) - 55/5$
:= $6 \times 6 + ((6^{6-6/6}) + ((6 + 6)/6))$
:= $7 \times 7 + (7777 - (77 + 7)/7)$
:= $8 + ((88 \times 88 - ((8 + 8)/8)) + 8 \times 8)$
:= $(9 + 9)/9 + ((99 \times (9 \times 9 - ((9 + 9)/9))) - 9)$
- ▶ **7815** := $1 + (1 + ((1 + ((1 + (1 + 1) \times (1 + 11)))^{1+1+1}))/ (1 + 1))$
:= $2 \times (2 + 2 + 2)^2 + ((2 \times 2 \times 22)^2 - 2/2)$
:= $3 + (3 \times (3333 - 3^{3+3}))$
:= $4 + (((4 \times 44 \times 44) + ((4^4 - 4)/4)) + 4)$
:= $5 \times ((5^5 + 5/5)/(5 + 5/5))$
:= $6 + ((66 \times 6/(6 + 6)) + (6^{6-6/6}))$
:= $7 \times 7 + (7777 - (77/7))$
:= $8 + ((88 \times 88 - 8/8) + 8 \times 8)$
:= $((9 + 9)/9)^9 + 9 \times ((9 - ((9 + 9 + 9)/9)) + 9)$
- ▶ **7816** := $(1 + 1) \times (((111 - 1)^{1+1}) - ((1 + 1)^{1+1+1}))$
:= $2 \times ((2 \times (2 \times 22)^2) + (2 + 2 + 2)^2)$
:= $3 + ((3 \times (3333 - 3^{3+3})) + 3/3)$
:= $4 + ((4 \times (44 \times 44 + 4 \times 4)) + 4)$
:= $5 + (((5/5 + 5)^5 + 5 \times 5) + 5) + 5)$
:= $6 + (((6^{6-6/6}) - ((6 + 6)/6)) + 6 \times 6)$
:= $7 \times 7 + (((7 - 77)/7) + 7777)$
:= $8 + (88 \times 88 + 8 \times 8)$
:= $9 \times 9 + (((99 - (99/9))^{(9+9)/9}) - 9)$
- ▶ **7817** := $((1 + 1)^{1+1+1}) + (((1 + 11^{1+1})/(1 + 1))^{1+1})$
:= $2/2 + (2 \times (2 + 2 + 2)^2 + (2 \times 2 \times 22)^2)$
:= $3 \times 3 + ((33 - 3/3) \times ((3^{3+3} + 3)/3))$
:= $4 + (((4 \times (44 \times 44 + 4 \times 4)) + 4/4) + 4)$
:= $5 + (((5/5 + 5)^5 + (55/5)) + 5 \times 5)$
:= $6 + (((6^{6-6/6}) - 6/6) + 6 \times 6)$
:= $7 \times 7 + (7777 - ((7 + 7)/7 + 7))$
:= $8 + ((88 \times 88 + 8/8) + 8 \times 8)$
:= $9 \times (9 \times 99 - 9) - ((999 + 9)/9) + 9)$
- ▶ **7818** := $(11 + ((1 + ((1 + 1) \times (1 + 11)))^{1+1+1}))/ (1 + 1)$
:= $2 + (2 \times (2 + 2 + 2)^2 + (2 \times 2 \times 22)^2)$
:= $(33 \times ((3 \times (3 \times 3^3 - 3)) + 3)) - 3$
:= $(44 - 4)/4 + (4 \times (44 \times 44 + 4 \times 4))$
:= $5 + (((5/5 + 5)^5 + ((5 + 5)/5)^5) + 5)$
:= $6 + ((6^{6-6/6}) + 6 \times 6)$
:= $7 \times 7 + (7777 - (7/7 + 7))$
:= $8 + ((88 \times 88 + ((8 + 8)/8)) + 8 \times 8)$
:= $9 \times (9 \times 99 - 9) - (999/9 + 9)$
- ▶ **7819** := $1 + ((11 + ((1 + ((1 + 1) \times (1 + 11)))^{1+1+1}))/ (1 + 1)$
:= $22/2 + (2^{2+2} \times (22^2 + 2 + 2))$
:= $3/3 + ((33 \times ((3 \times (3 \times 3^3 - 3)) + 3)) - 3)$
:= $44/4 + (4 \times (44 \times 44 + 4 \times 4))$
:= $55 + ((5/5 + 5)^5 - ((55 + 5)/5))$
:= $6 + (((6^{6-6/6}) + 6 \times 6) + 6/6)$
:= $7 \times 7 + (7777 - 7)$
:= $8 \times 8 + (88 \times 88 + (88/8))$
:= $(99 \times (9 \times 9 - ((9 + 9)/9))) - (9 + 9)/9$
- ▶ **7820** := $(1 + 1) \times ((1 + (11 + 11)) \times (1 + (1 + 1 + 11)^{1+1}))$
:= $2 \times ((2 \times (2 \times (2 \times (22^2 + 2)))) + 22)$
:= $(3/3 + 3) \times (((3 \times (3 + 3))^3 + 33)/3)$
:= $44 + (4 \times ((44 \times 44 + 4) + 4))$
:= $(5 \times (5 \times (5^5 + 5)/(5 + 5))) - 5$
:= $6 + (((6^{6-6/6}) + ((6 + 6)/6)) + 6 \times 6)$
:= $7/7 + ((7777 - 7) + 7 \times 7)$
:= $8 \times 8 + (88 \times 88 + ((88 + 8)/8))$
:= $(99 \times (9 \times 9 - ((9 + 9)/9))) - 9/9$
- ▶ **7821** := $11 \times (1111 - ((1 + 1) \times (11 - 1))^{1+1})$
:= $2 \times (2 \times ((2 \times 22)^2 + 22)) - 22/2$
:= $33 \times ((3 \times (3 \times 3^3 - 3)) + 3)$
:= $(4 - 4/4)^4 + ((4 \times 44 \times 44) - 4)$
:= $55 + ((5/5 + 5)^5 - (5 + 5))$
:= $666/6 + ((6^{6-6/6}) - 66)$
:= $77 + ((77/7 + 77)^{(7+7)/7})$
:= $88 + (88 \times 88 - (88/8))$
:= $99 \times (9 \times 9 - ((9 + 9)/9))$
- ▶ **7822** := $1 + (11 \times (1111 - ((1 + 1) \times (11 - 1))^{1+1}))$
:= $2 \times (2 \times (((2 \times 22)^2 - 2) + 22)) - 2$
:= $3/3 + (33 \times ((3 \times (3 \times 3^3 - 3)) + 3))$
:= $4^4 + ((44 \times (4 \times 44 - 4)) - (4 + 4)/4)$
:= $55 + (((5/5 + 5)^5 - (5 + 5)) + 5/5)$
:= $6 \times 6 + ((6^{6-6/6}) + ((66 - 6)/6))$
:= $7 + ((7777 - (77/7)) + 7 \times 7)$
:= $88 + (88 \times 88 + (8 - 88)/8)$
:= $9/9 + (99 \times (9 \times 9 - ((9 + 9)/9)))$
- ▶ **7823** := $11 + (((1 + ((1 + 1) \times (1 + 11)))^{1+1+1}) - 1)/ (1 + 1)$
:= $222/2 + (2^{2+2} \times (22^2 - 2))$
:= $((3 + 3) \times ((33/3)^3 - 3^3)) - 3/3$
:= $4^4 + ((44 \times (4 \times 44 - 4)) - 4/4)$
:= $(5 \times (5 \times (5^5 + 5)/(5 + 5))) - (5 + 5)/5$
:= $6 \times 6 + ((6^{6-6/6}) + (66/6))$
:= $7 \times 7 + (7777 - ((7 + 7 + 7)/7))$
:= $88 + (88 \times 88 - (8/8 + 8))$
:= $(9 + 9)/9 + (99 \times (9 \times 9 - ((9 + 9)/9)))$
- ▶ **7824** := $11 + ((1 + ((1 + ((1 + 1) \times (1 + 11)))^{1+1+1}))/ (1 + 1)$
:= $2 \times (2 \times (((2 \times 22)^2 - 2) + 22))$
:= $(3 + 3) \times ((33/3)^3 - 3^3)$
:= $4 \times ((44 \times 44 + 4 \times 4) + 4)$
:= $(5 \times (5 \times (5^5 + 5)/(5 + 5))) - 5/5$
:= $6 + (((6^{6-6/6}) + 6 \times 6) + 6)$
:= $7 \times 7 + (7777 - ((7 + 7)/7))$
:= $88 + (88 \times 88 - 8)$
:= $(9 - 9/9) \times (999 - ((99 + 9)/9 + 9))$
- ▶ **7825** := $((111 \times ((1 + 11)^{1+1} - (1 + 1 + 1))) - 1)/ (1 + 1)$
:= $(2 \times 2 \times 22)^2 + (2/2 + 2)^{2+2}$
:= $3/3 + ((3 + 3) \times ((33/3)^3 - 3^3))$
:= $(4 - 4/4)^4 + (4 \times 44 \times 44)$
:= $5 \times (5 \times (5^5 + 5)/(5 + 5))$
:= $6 + (((6^{6-6/6}) + 6 \times 6) + 6/6) + 6)$
:= $7 \times 7 + (7777 - 7/7)$
:= $8/8 + ((88 \times 88 - 8) + 88)$
:= $9 \times 9 + ((99 - (99/9))^{(9+9)/9})$
- ▶ **7826** := $1111 + (((11 \times 11 \times 111) - 1)/ (1 + 1))$
:= $2 + (2 \times (2 \times (((2 \times 22)^2 - 2) + 22)))$
:= $3 + (((3 + 3) \times ((33/3)^3 - 3^3)) - 3/3)$
:= $4/4 + ((4 \times 44 \times 44) + (4 - 4/4)^4)$
:= $55 + ((5/5 + 5)^5 - 5)$
:= $(6/6 + 6) \times ((6666 + 6)/6 + 6)$
:= $7 \times 7 + 7777$
:= $88 + ((88 \times 88 - 8) + ((8 + 8)/8))$
:= $9 \times (9 \times 99 - 9) - ((999 + 9)/9)$
- ▶ **7827** := $1111 + ((1 + (11 \times 11 \times 111))/ (1 + 1))$
:= $2 + ((2 \times 2 \times 22)^2 + (2/2 + 2)^{2+2})$
:= $3 + ((3 + 3) \times ((33/3)^3 - 3^3))$
:= $4 + (((44 \times (4 \times 44 - 4)) - 4/4) + 4^4)$
:= $55 + (((5/5 + 5)^5 - 5) + 5/5)$
:= $6 + (((6^{6-6/6}) - 66) + 666/6)$
:= $7/7 + (7777 + 7 \times 7)$
:= $8 + ((88 \times 88 + (88/8)) + 8 \times 8)$
:= $9 \times (9 \times 99 - 9) - 999/9$

- **7828** := $((1+1)^{1+1+11}) - (1 + (11 \times (11 \times (1+1+1))))$
:= $2 \times ((2 \times ((2 \times 22)^2 + 22)) - 2)$
:= $3 + (((3+3) \times ((33/3)^3 - 3^3)) + 3/3)$
:= $4 + ((44 \times (4 \times 44 - 4)) + 4^4)$
:= $55 + (((5/5+5)^5 - 5) + ((5+5)/5))$
:= $(6^{6-6/6}) + (((6+6)/6)^6 - (6+6))$
:= $7 \times 7 + (7777 + ((7+7)/7))$
:= $88 + (88 \times 88 - 8 \times 8 / (8+8))$
:= $(9 - 999) / 9 + 9 \times (9 \times 99 - 9)$
- **7829** := $((1+1)^{1+1+11}) - (11 \times (11 \times (1+1+1)))$
:= $2/2 + (2 \times ((2 \times ((2 \times 22)^2 + 22)) - 2))$
:= $(3 \times (3+3))^3 + ((3+3) \times 333 - 3/3)$
:= $4 + ((4 \times 44 \times 44) + (4 - 4/4)^4)$
:= $55 + ((5/5+5)^5 - ((5+5)/5))$
:= $6 + (((6^{6-6/6}) + (66/6)) + 6 \times 6)$
:= $7 \times 7 + (7777 + ((7+7+7)/7))$
:= $8 + ((88 \times 88 - (88/8)) + 88)$
:= $9 + ((99 \times (9 \times 9 - ((9+9)/9))) - 9/9)$
- **7830** := $(11 - 1) \times (((1 + (1 + 1 + 1)^{1+1+1})^{1+1}) - 1)$
:= $(2 \times (2 \times ((2 \times 22)^2 + 22))) - 2$
:= $3 \times ((3^3 + 3) \times (3 \times 3^3 + 3 + 3))$
:= $(44 + 4/4) \times (4 \times 44 - (4 + 4)/4)$
:= $5 + (5 \times (5 \times (5^5 + 5) / (5 + 5)))$
:= $66 + ((6^{6-6/6}) - (6 + 6))$
:= $7 \times 7 + ((7777 - 7) + (77/7))$
:= $88 + (88 \times 88 - ((8 + 8)/8))$
:= $9 + (99 \times (9 \times 9 - ((9 + 9)/9)))$
- **7831** := $1 + ((11 - 1) \times (((1 + (1 + 1 + 1)^{1+1+1})^{1+1}) - 1))$
:= $(2 \times (2 \times ((2 \times 22)^2 + 22))) - 2/2$
:= $3/3 + ((3 + 3) \times 333 + (3 \times (3 + 3))^3)$
:= $(44 \times (4 \times 44 + (4 + 4)/4)) - 4/4$
:= $55 + (5/5 + 5)^5$
:= $66 + ((6^{6-6/6}) - (66/6))$
:= $7 + ((7777 - ((7 + 7)/7)) + 7 \times 7)$
:= $88 + (88 \times 88 - 8/8)$
:= $((99 - 9/9) \times (9 \times 9 - 9/9)) - 9$
- **7832** := $(1 + 1) \times (11 \times (((1 + 1 + 1) \times (11^{1+1} - (1 + 1))) - 1))$
:= $2 \times (2 \times ((2 \times 22)^2 + 22))$
:= $33/3 + (33 \times ((3 \times (3 \times 3^3 - 3)) + 3))$
:= $44 \times (4 \times 44 + (4 + 4)/4)$
:= $55 + ((5/5 + 5)^5 + 5/5)$
:= $66 + (((6 - 66)/6) + (6^{6-6/6}))$
:= $7 + ((7777 - 7/7) + 7 \times 7)$
:= $88 + 88 \times 88$
:= $99/9 + (99 \times (9 \times 9 - ((9 + 9)/9)))$
- **7833** := $(11 + (11 - 1)) \times (((11 + 11)^{1+1}) - 111)$
:= $2/2 + (2 \times (2 \times ((2 \times 22)^2 + 22)))$
:= $3 + ((3 + 3) \times 333 + (3 \times (3 + 3))^3)$
:= $4/4 + (44 \times (4 \times 44 + (4 + 4)/4))$
:= $55 + ((5/5 + 5)^5 + ((5 + 5)/5))$
:= $((66 + 6/6) \times (666/6 + 6)) - 6$
:= $7 + (7777 + 7 \times 7)$
:= $8/8 + (88 \times 88 + 88)$
:= $(99 + 9)/9 + (99 \times (9 \times 9 - ((9 + 9)/9)))$
- **7834** := $1111 + (((1 + (11 - 1 - 1)^{1+1})^{1+1}) - 1)$
:= $2 + (2 \times (2 \times ((2 \times 22)^2 + 22)))$
:= $3 + (((3 + 3) \times 333 + (3 \times (3 + 3))^3) + 3/3)$
:= $4 + ((44 + 4/4) \times (4 \times 44 - (4 + 4)/4))$
:= $5 + (((5/5 + 5)^5 - ((5 + 5)/5)) + 55)$
:= $(6^{6-6/6}) + (((6 + 6)/6)^6 - 6)$
:= $7 + ((7777 + 7 \times 7) + 7/7)$
:= $88 + (88 \times 88 + ((8 + 8)/8))$
:= $9 + (((99 - (99/9))^{(9+9)/9}) + 9 \times 9)$
- **7835** := $1111 + ((1 + (11 - 1 - 1)^{1+1})^{1+1})$
:= $2 + ((2 \times (2 \times ((2 \times 22)^2 + 22))) + 2/2)$
:= $3^3 + ((33 - 3/3) \times ((3^{3+3} + 3)/3))$
:= $((4 + 4) \times (4 \times 4^4 - 44)) - 4/4 - 4$
:= $5 + ((5 \times (5 \times (5^5 + 5) / (5 + 5))) + 5)$
:= $66 + ((6^{6-6/6}) - (6/6 + 6))$
:= $7 + ((7777 + ((7 + 7)/7)) + 7 \times 7)$
:= $88 + ((88 \times 88 - 8) + (88/8))$
:= $9 + (9 \times (9 \times 99 - 9) - ((999 + 9)/9))$
- **7836** := $1 + (1111 + ((1 + (11 - 1 - 1)^{1+1})^{1+1}))$
:= $2 \times (2 \times ((2 \times 22)^2 + 22)) + 2$
:= $3^3 + (((3 + 3)^{3-3/3+3}) + 33)$
:= $((4 + 4) \times (4 \times 4^4 - 44)) - 4$
:= $5 + ((5/5 + 5)^5 + 55)$
:= $66 + ((6^{6-6/6}) - 6)$
:= $77 + (7777 - (77/7 + 7))$
:= $88 + (88 \times 88 + 8 \times 8 / (8 + 8))$
:= $9 + (9 \times (9 \times 99 - 9) - 999/9)$
- **7837** := $((111 - 1 - 1) \times ((1 + 11)^{1+1} / (1 + 1))) - 11$
:= $2/2 + (2 \times ((2 \times ((2 \times 22)^2 + 22)) + 2))$
:= $((3/3 + 3)^3) + (((3 + 3)^{3-3/3+3}) - 3)$
:= $4/4 + (((4 + 4) \times (4 \times 4^4 - 44)) - 4)$
:= $5 + (((5/5 + 5)^5 + 55) + 5/5)$
:= $66 + (((6^{6-6/6}) - 6) + 6/6)$
:= $7 \times 7 + (7777 + (77/7))$
:= $8 + (((88 \times 88 - (88/8)) + 88) + 8)$
:= $9 \times (9 \times 99 - 9) - ((9 + 9)/9 + 99)$
- **7838** := $(1 + 1) \times (((1 + 111) \times (1 + (1 + 11 \times (1 + 1 + 1)))) - 1)$
:= $2 + (2 \times (2 \times ((2 \times 22)^2 + 22) + 2))$
:= $((33/3 + 3 \times 3)^3) - (3 + 3) \times 3^3$
:= $((4 + 4) \times (4 \times 4^4 - 44)) - (4 + 4)/4$
:= $5 + (((5/5 + 5)^5 + ((5 + 5)/5)) + 55)$
:= $66 + (((6^{6-6/6}) - 6) + ((6 + 6)/6))$
:= $7 \times 7 + (7777 + (77 + 7)/7)$
:= $8 + ((88 \times 88 - ((8 + 8)/8)) + 88)$
:= $9 \times (9 \times 99 - 9) - (9/9 + 99)$
- **7839** := $((11 - 1) \times ((1 + (1 + 1 + 1)^{1+1+1})^{1+1})) - 1$
:= $(2 \times (2 \times (((2 \times 22)^2 + 22) + 2))) - 2/2$
:= $(33 + 3 + 3) \times (33 \times (3 + 3) + 3)$
:= $((4 + 4) \times (4 \times 4^4 - 44)) - 4/4$
:= $(5/5 + 5)^5 + (5^5/5 + 5) / (5 + 5)$
:= $(66 + 6/6) \times (666/6 + 6)$
:= $(7 \times (7 \times 7 \times 7 + 777)) - 7/7$
:= $8 + ((88 \times 88 - 8/8) + 88)$
:= $9 \times (9 \times 99 - 9) - 99$
- **7840** := $(11 - 1) \times ((1 + (1 + 1 + 1)^{1+1+1})^{1+1})$
:= $2 \times (2 \times ((2 \times 22)^2 + 22) + 2)$
:= $((3/3 + 3)^3) + ((3 + 3)^{3-3/3+3})$
:= $(4 + 4) \times (4 \times 4^4 - 44)$
:= $5 \times (((5^5 + 5/5) / ((5 + 5)/5)) + 5)$
:= $(6^{6-6/6}) + ((6 + 6)/6)^6$
:= $7 \times (7 \times 7 \times 7 + 777)$
:= $8 + (88 \times 88 + 88)$
:= $(99 - 9/9) \times (9 \times 9 - 9/9)$
- **7841** := $1 + ((11 - 1) \times ((1 + (1 + 1 + 1)^{1+1+1})^{1+1}))$
:= $2/2 + (2 \times (2 \times (((2 \times 22)^2 + 22) + 2)))$
:= $3 + (((33/3 + 3 \times 3)^3) - (3 + 3) \times 3^3)$
:= $4/4 + ((4 + 4) \times (4 \times 4^4 - 44))$
:= $5 + (((5/5 + 5)^5 + 55) + 5)$
:= $66 + ((6^{6-6/6}) - 6/6)$
:= $7/7 + (7 \times (7 \times 7 \times 7 + 777))$
:= $8 + ((88 \times 88 + 8/8) + 88)$
:= $9/9 + ((99 - 9/9) \times (9 \times 9 - 9/9))$
- **7842** := $1 + (1 + ((11 - 1) \times ((1 + (1 + 1 + 1)^{1+1+1})^{1+1})))$
:= $2 + (2 \times (2 \times ((2 \times 22)^2 + 22) + 2))$
:= $(3 + 3) \times (((33/3)^3 - 3^3) + 3)$
:= $(4 + 4)/4 + ((4 + 4) \times (4 \times 4^4 - 44))$
:= $55 + ((5/5 + 5)^5 + (55/5))$
:= $66 + (6^{6-6/6})$
:= $77 + (7777 - (77 + 7)/7)$
:= $8 + ((88 \times 88 + ((8 + 8)/8)) + 88)$
:= $(9 + 9)/9 + ((99 - 9/9) \times (9 \times 9 - 9/9))$

- **7843** := $11 \times ((1 + (11 + 11)) \times (1 + ((11 - 1) \times (1 + 1 + 1))))$ ► **7848** := $(111 - 1 - 1) \times ((1 + 11)^{1+1} / (1 + 1))$ ► **7853** := $((1 + ((1 + 1) \times (1 + 1 + 1))) \times (11 + 1111)) - 1$
- := $22/2 + (2 \times (2 \times ((2 \times 22)^2 + 22)))$:= $(2 + 2 + 2)^2 \times (222 - 2 - 2)$:= $222/2 + ((2 \times 2 \times 22)^2 - 2)$
:= $3 + (((3 + 3)^{3-3/3+3}) + ((3/3 + 3)^3))$:= $(3^3 - 3) \times (333 - (3 + 3))$:= $3^{3+3} + ((33 \times (3 + 3)^3) - (3/3 + 3))$
:= $4 + (((4 + 4) \times (4 \times 4^4 - 44)) - 4/4)$:= $4 + (((4 + 4) \times (4 \times 4^4 - 44)) + 4)$:= $44 + ((4 \times (44 \times 44 + 4 \times 4)) + 4/4)$
:= $55 + ((5/5 + 5)^5 + ((55 + 5)/5))$:= $5 + (((5/5 + 5)^5 + ((55 + 5)/5)) + 55)$:= $55 + ((55 + 55)/5 + (5/5 + 5)^5)$
:= $66 + ((6^{6-6/6}) + 6/6)$:= $6 + ((6^{6-6/6}) + 66)$:= $66 + ((6^{6-6/6}) + (66/6))$
:= $77 + (7777 - (77/7))$:= $7/7 + ((7777 - 7) + 77)$:= $77 + (7777 - 7/7)$
:= $88 + (88 \times 88 + (88/8))$:= $8 + ((88 \times 88 + 88) + 8)$:= $88 \times 88 + ((888 - 8 - 8)/8)$
:= $99 + ((99 - (99/9))^{(9+9)/9})$:= $(9 \times (9 \times 99 - (9 + 9))) - 9$:= $((9 - 9 \times 9)/(9 + 9)) + (9 \times (9 \times 99 - (9 + 9)))$
- **7844** := $111 + (((11 \times (1 + 1)^{1+1+1})^{1+1}) - 11)$ ► **7849** := $1 + ((111 - 1 - 1) \times ((1 + 11)^{1+1} / (1 + 1)))$ ► **7854** := $(1 + ((1 + 1) \times (1 + 1 + 1))) \times (11 + 1111)$
- := $2 \times ((2 \times ((2 \times 22)^2 + 22) + 2) + 2)$:= $2/2 + ((2 + 2 + 2)^2 \times (222 - 2 - 2))$:= $22 + (2 \times (2 \times ((2 \times 22)^2 + 22)))$
:= $(3/3 + 33 + 3) \times ((3 + 3)^3 - (3/3 + 3))$:= $3/3 + ((3^3 - 3) \times (333 - (3 + 3)))$:= $33 \times (((3^{3+3} + 3)/3) - (3 + 3))$
:= $4 + ((4 + 4) \times (4 \times 4^4 - 44))$:= $4 + (((4 + 4) \times (4 \times 4^4 - 44)) + 4/4 + 4)$:= $(444 - 4)/4 + (4 \times 44 \times 44)$
:= $5 + ((5^5/5 + 5)/(5 + 5) + (5/5 + 5)^5)$:= $(5 \times ((5 \times (5^5 + 5)/(5 + 5)) + 5)) - 5/5$:= $5 + ((5 \times ((5 \times (5^5 + 5)/(5 + 5)) + 5)) - 5/5)$
:= $66 + ((6^{6-6/6}) + ((6 + 6)/6))$:= $6 + (((6^{6-6/6}) + 66) + 6/6)$:= $6 + (((6^{6-6/6}) + 66) + 6)$
:= $7 + (7777 + (77/7)) + 7 \times 7$:= $77 + ((7777 - 7) + ((7 + 7)/7))$:= $77 + 7777$
:= $88 + (88 \times 88 + ((88 + 8)/8))$:= $8 + (((88 \times 88 + 8/8) + 88) + 8)$:= $88 \times 88 + (888 - 8)/8$
:= $9 \times (9 \times 99 + 9) - ((9 + 9)/9)^{9-9/9}$:= $9 + ((99 - 9/9) \times (9 \times 9 - 9/9))$:= $(9 \times (9 \times 99 - (9 + 9))) - (9 + 9 + 9)/9$
- **7845** := $(1 + 1 + 1) \times (((1 + 1) \times ((1 + 11) \times (111 - 1 - 1))))$ ► **7850** := $(11 - 1) \times (1 + ((1 + (1 + 1 + 1))^{1+1+1})^{1+1})$ ► **7855** := $111 + ((11 \times (1 + 1)^{1+1+1})^{1+1})$
- := $(2 \times 2 \times 22)^2 + 2222/22$:= $2 + ((2 + 2 + 2)^2 \times (222 - 2 - 2))$:= $222/2 + (2 \times 2 \times 22)^2$
:= $((3^3 - 3) \times (333 - (3 + 3))) - 3$:= $3 + (((3^3 - 3) \times (333 - (3 + 3))) - 3/3)$:= $3/3 + (((33 \times (3 + 3)^3) - 3) + 3^{3+3})$
:= $4 + (((4 + 4) \times (4 \times 4^4 - 44)) + 4/4)$:= $(44 - 4)/4 + ((4 + 4) \times (4 \times 4^4 - 44))$:= $444/4 + (4 \times 44 \times 44)$
:= $(5 \times ((5 \times (5^5 + 5)/(5 + 5)) + 5)) - 5$:= $5 \times ((5 \times (5^5 + 5)/(5 + 5)) + 5)$:= $5 + (5 \times ((5 \times (5^5 + 5)/(5 + 5)) + 5))$
:= $6 + ((66 + 6/6) \times (666/6 + 6))$:= $6 + (((6^{6-6/6}) + ((6 + 6)/6)) + 66)$:= $6 + (((6^{6-6/6}) + 66) + 6/6 + 6)$
:= $77 + (7777 - ((7 + 7)/7 + 7))$:= $7 + ((7777 - (77/7)) + 77)$:= $7/7 + (7777 + 77)$
:= $88 \times 88 + (8888/88)$:= $8 + (((88 \times 88 + ((8 + 8)/8)) + 88) + 8)$:= $888/8 + 88 \times 88$
:= $(9 \times (9 \times 99 - (9 + 9))) - (99 + 9)/9$:= $(9 + 9)/9 + ((9 \times (9 \times 99 - (9 + 9))) - 9)$:= $(9 \times (9 \times 99 - (9 + 9))) - (9 + 9)/9$
- **7846** := $(1 + 1) \times (((1 + 1 + 1) \times ((1 + 11) \times (111 - 1 - 1))))$ ► **7851** := $1 + ((11 - 1) \times (1 + ((1 + (1 + 1 + 1))^{1+1+1})^{1+1}))$ ► **7856** := $1 + (111 + ((11 \times (1 + 1)^{1+1+1})^{1+1}))$
- := $((2 + 2 + 2)^2 \times (222 - 2 - 2)) - 2$:= $222/2 + (2 \times ((2 \times (2 \times 22)^2) - 2))$:= $(2 \times 2 \times 22)^2 + (222 + 2)/2$
:= $3/3 + (((3^3 - 3) \times (333 - (3 + 3))) - 3)$:= $3 + ((3^3 - 3) \times (333 - (3 + 3)))$:= $3^{3+3} + ((33 \times (3 + 3)^3) - 3/3)$
:= $4 + (((4 + 4) \times (4 \times 4^4 - 44)) + (4 + 4)/4)$:= $44/4 + ((4 + 4) \times (4 \times 4^4 - 44))$:= $4 \times (((4 + 4) \times (4^4 - 44/4)) + 4)$
:= $5 + (((5/5 + 5)^5 + 55) + 5) + 5$:= $(5/5 + 5)^5 + (5 \times (5 + 5 + 5))$:= $5 \times 5 + ((5/5 + 5)^5 + 55)$
:= $6 + ((6^{6-6/6}) + ((6 + 6)/6)^6)$:= $666/6 + (6 \times (6 \times 6 \times 6 \times 6 - 6))$:= $((6 + 6) \times (666 - 6)) - ((6 + 6)/6)^6$
:= $77 + (7777 - (7/7 + 7))$:= $77 + (7777 - ((7 + 7 + 7)/7))$:= $77 + (7777 + ((7 + 7)/7))$
:= $88 \times 88 + ((888 - 8)/8 - 8)$:= $8 + ((88 \times 88 + (88/8)) + 88)$:= $8 + (((88 \times 88 + 88) + 8) + 8)$
:= $(9 \times (9 \times 99 - (9 + 9))) - 99/9$:= $9 \times 9 + (999/9 \times (9 \times 9 - 99/9))$:= $(9 \times (9 \times 99 - (9 + 9))) - 9/9$
- **7847** := $(1 + ((1 + 1) \times (1 + 1 + 1))) \times (11 + (1111 - 1))$ ► **7852** := $(1 + 1 + 11) \times (11 \times (111 - 1)/(1 + 1) - 1)$ ► **7857** := $1 + (1 + (111 + ((11 \times (1 + 1))^{1+1+1})^{1+1}))$
- := $222/2 + (2 \times (2 \times ((2 \times 22)^2 - 2)))$:= $2 + (((2 + 2 + 2)^2 \times (222 - 2 - 2)) + 2)$:= $2 + ((2 \times 2 \times 22)^2 + 222/2)$
:= $((3^3 - 3) \times (333 - (3 + 3))) - 3/3$:= $3 + (((3^3 - 3) \times (333 - (3 + 3))) + 3/3)$:= $3^3 \times (3 \times (3 \times 33 - 3) + 3)$
:= $4 + (((4 + 4) \times (4 \times 4^4 - 44)) - 4/4) + 4$:= $44 + (4 \times (44 \times 44 + 4 \times 4))$:= $((4 - 4^4)/4) + (44 \times (4 \times 44 + 4))$
:= $5 + (((5/5 + 5)^5 + (55/5)) + 55)$:= $5/5 + ((5/5 + 5)^5 + (5 \times (5 + 5 + 5)))$:= $5 \times 5 + (((5/5 + 5)^5 + 55) + 5/5)$
:= $6 + (((6^{6-6/6}) - 6/6) + 66)$:= $6 + (((6^{6-6/6}) + ((6 + 6)/6)^6) + 6)$:= $6 + ((6 \times (6 \times 6 \times 6 \times 6 - 6)) + 666/6)$
:= $77 + (7777 - 7)$:= $77 + (7777 - ((7 + 7)/7))$:= $77 + (7777 + ((7 + 7 + 7)/7))$
:= $888/8 + (88 \times 88 - 8)$:= $8 + ((88 \times 88 + ((88 + 8)/8)) + 88)$:= $((8/8 + 88)^{(8+8)/8}) - 8 \times 8$
:= $(9 \times (9 \times 99 - (9 + 9))) - 9/9 - 9$:= $9 + (((99 - (99/9))^{(9+9)/9}) + 99)$:= $9 \times (9 \times 99 - (9 + 9))$

$$\begin{aligned}
\blacktriangleright 7858 &:= ((1+1)^{1+1+11}) - (1+(1+1+1) \times 111) \\
&:= ((2 \times 2 \times 22 + 2)^2) - 22^2/2 \\
&:= 3/3 + ((33 \times (3+3)^3) + 3^{3+3}) \\
&:= 4 + ((444 - 4)/4 + (4 \times 44 \times 44)) \\
&:= 5 \times 5 + (((5/5 + 5)^5 + ((5+5)/5)) + 55) \\
&:= 6 + (((6^{6-6/6}) + ((6+6)/6)^6 + 6) + 6) \\
&:= 77 + ((7777 - 7) + (77/7)) \\
&:= 8/8 + (((8/8 + 88)^{(8+8)/8}) - 8 \times 8) \\
&:= 9/9 + (9 \times (9 \times 99 - (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7859 &:= ((1+1)^{1+1+11}) - (1+1+1) \times 111 \\
&:= 2 + (((2 \times 2 \times 22)^2 + 222/2) + 2) \\
&:= 3 + (((33 \times (3+3)^3) - 3/3) + 3^{3+3}) \\
&:= 4 + ((4 \times 44 \times 44) + 444/4) \\
&:= (5 \times 5 - 5/5 + 5) \times ((5 \times 55 - 5) + 5/5) \\
&:= 6 + (((6^{6-6/6}) + (66/6)) + 66) \\
&:= 7 + ((7777 - ((7+7)/7)) + 77) \\
&:= 8 + (((88 \times 88 + (88/8)) + 88) + 8) \\
&:= (9+9)/9 + (9 \times (9 \times 99 - (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7860 &:= 1 + (((1+1)^{1+1+11}) - (1+1+1) \times 111) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) - 22^2/2) \\
&:= 3 + ((33 \times (3+3)^3) + 3^{3+3}) \\
&:= 4 + (((4+4) \times (4 \times 4^4 - 44)) + 4 \times 4) \\
&:= (55+5) \times ((5 \times 5 \times 5 + 5/5) + 5) \\
&:= (6+6) \times (666 - 66/6) \\
&:= 7 + ((7777 - 7/7) + 77) \\
&:= 8 \times (8+8) + (88 \times 88 - ((88+8)/8)) \\
&:= ((9+9+9)/9) + (9 \times (9 \times 99 - (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7861 &:= (1 + ((1+1) \times (1+1+1))) \times (1 + (11 + 1111)) \\
&:= (22/2)^2 + (2 \times ((2 \times (2 \times 22)^2) - 2)) \\
&:= 3 + (((33 \times (3+3)^3) + 3^{3+3}) + 3/3) \\
&:= 4 + ((44 \times (4 \times 44 + 4)) + ((4 - 4^4)/4)) \\
&:= 5 + (((5/5 + 5)^5 + 55) + 5 \times 5) \\
&:= 6/6 + ((6+6) \times (666 - 66/6)) \\
&:= 7 + (7777 + 77) \\
&:= 8 \times (8+8) + (88 \times 88 - (88/8)) \\
&:= ((9 \times 9 - 9)/(9+9)) + (9 \times (9 \times 99 - (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7862 &:= ((1+1)^{1+1+11}) - ((1+1+1) \times (111-1)) \\
&:= 22 + (2 \times (2 \times ((2 \times 22)^2 + 22) + 2)) \\
&:= (33/3)^3 + ((3 \times (3 \times (3^{3+3} - 3))) - 3) \\
&:= 4 + (((444 - 4)/4 + (4 \times 44 \times 44)) + 4) \\
&:= 555/5 + ((5/5 + 5)^5 - 5 \times 5) \\
&:= 6 + (((6+6) \times (666 - 6)) - ((6+6)/6)^6) \\
&:= 7 + ((7777 + 77) + 7/7) \\
&:= 8 + ((888 - 8)/8 + 88 \times 88) \\
&:= 9 \times 999 - ((9999/9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7863 &:= 1 + (((1+1)^{1+1+11}) - ((1+1+1) \times (111-1))) \\
&:= (22/2)^2 + ((2 \times 2 \times 22)^2 - 2) \\
&:= 3 + (((33 \times (3+3)^3) + 3^{3+3}) + 3) \\
&:= 4 + (((4 \times 44 \times 44) + 444/4) + 4) \\
&:= 55 + ((5/5 + 5)^5 + ((5+5)/5)^5) \\
&:= 6 + (((6 \times (6 \times 6 \times 6 \times 6 - 6)) + 666/6) + 6) \\
&:= 7 + ((7777 + ((7+7)/7)) + 77) \\
&:= 8 + (888/8 + 88 \times 88) \\
&:= 9 + ((9 \times (9 \times 99 - (9+9))) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7864 &:= (11 \times (11 \times (1 + ((1+1)^{(1+1) \times (1+1+1)})))) - 1 \\
&:= 2 \times (2 \times ((2 \times (2 \times (22^2 + 2))) + 22)) \\
&:= 3 + (((33 \times (3+3)^3) + 3^{3+3}) + 3/3 + 3) \\
&:= 4 \times (4 \times 4444/(4+4) - 4^4) \\
&:= (55 \times (5 \times (5 \times 5 + 5) - 5)) - 555/5 \\
&:= 66 + (((66 + 66)/6) + (6^{6-6/6})) \\
&:= 77 + (7777 + ((77 - 7)/7)) \\
&:= 8 \times (8+8) + (88 \times 88 - 8) \\
&:= 9 + ((9 \times (9 \times 99 - (9+9))) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7865 &:= 11 \times (11 \times (1 + ((1+1)^{(1+1) \times (1+1+1)}))) \\
&:= (22/2)^2 + (2 \times 2 \times 22)^2 \\
&:= 33/3 \times (3^{3+3} - (33/3 + 3)) \\
&:= 44/4 \times 4 \times 4 \times 44 + 44/4 \\
&:= 5 + ((55+5) \times ((5 \times 5 \times 5 + 5/5) + 5)) \\
&:= 66/6 \times ((66/6) \times (66 - 6/6)) \\
&:= 77 + (7777 + (77/7)) \\
&:= 88/8 \times (88/8 + 8 \times 88) \\
&:= 9 + ((9 \times (9 \times 99 - (9+9))) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7866 &:= 1 + (11 \times (11 \times (1 + ((1+1)^{(1+1) \times (1+1+1)})))) \\
&:= (2 \times 22 + 2) \times (((22/2 + 2)^2) + 2) \\
&:= (3+3) \times (((3+3) \times ((3+3)^3 + 3)) - 3) \\
&:= (4 \times 44 \times 44) + (444 + 44)/4 \\
&:= 5 + (((5/5 + 5)^5 + 55) + 5 \times 5) + 5) \\
&:= 6 + ((6+6) \times (666 - 66/6)) \\
&:= 77 + (7777 + (77+7)/7) \\
&:= 88 \times 88 + ((888 + 88)/8) \\
&:= 9 + (9 \times (9 \times 99 - (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7867 &:= (1+1)^{11} + (11 \times (1+11+11)^{1+1}) \\
&:= 2 + ((2 \times 2 \times 22)^2 + (22/2)^2) \\
&:= 3/3 + ((3+3) \times (((3+3) \times ((3+3)^3 + 3)) - 3)) \\
&:= 4^4 + ((44 - 4/4) \times (4 \times 44 + 4/4)) \\
&:= 5 + (((5/5 + 5)^5 - 5 \times 5) + 555/5) \\
&:= 6 + (((6+6) \times (666 - 66/6)) + 6/6) \\
&:= 7 + (((7777 - 7/7) + 77) + 7) \\
&:= 88 \times 88 + (((888 + 88) + 8)/8) \\
&:= 9 + ((9 \times (9 \times 99 - (9+9))) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7868 &:= (((1+1) \times (11-1))^{1+1+1}) - (11 \times (1+11)) \\
&:= (2^{22/2+2}) - ((2^{2+2} + 2)^2) \\
&:= 3 + ((3 \times (3 \times (3^{3+3} - 3))) + (33/3)^3) \\
&:= 4 \times (4^4 \times (4+4) - (4 - 4/4)^4) \\
&:= 5 + (((5/5 + 5)^5 + ((5+5)/5)^5) + 55) \\
&:= (6/6 + 6) \times (((6666 + 6)/6 + 6) + 6) \\
&:= 7 + (7777 + 77 + 7) \\
&:= 8 \times (8+8) + (88 \times 88 - 8 \times 8/(8+8)) \\
&:= 99/9 + (9 \times (9 \times 99 - (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7869 &:= 1 + (((1+1) \times (11-1))^{1+1+1}) - (11 \times (1+11)) \\
&:= 2 + (((2 \times 2 \times 22)^2 + (22/2)^2) + 2) \\
&:= 3 + ((3+3) \times (((3+3) \times ((3+3)^3 + 3)) - 3)) \\
&:= 4 + (44/4 \times 4 \times 4 \times 44 + 44/4) \\
&:= 5 \times 5 \times 5 + ((5/5 + 5)^5 - ((5+5)/5)^5) \\
&:= 666/6 + ((6^{6-6/6}) - (6+6+6)) \\
&:= 7 + (((7777 + 77) + 7/7) + 7) \\
&:= 8 + ((88 \times 88 - (88/8)) + 8 \times (8+8)) \\
&:= (99+9)/9 + (9 \times (9 \times 99 - (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7870 &:= (111 \times (((1+11)^{1+1}/(1+1)) - 1)) - 11 \\
&:= (2^{2+2} \times (2 \times (2+2) + 22^2)) - 2 \\
&:= ((33+3) \times ((3+3)^3 + 3)) - (33/3 + 3) \\
&:= (444 - 4)/4 + (4 \times (44 \times 44 + 4)) \\
&:= 5 \times (((5 - 5/5)^5 - 5) + 555) \\
&:= 6 \times 6 + (((6^{6-6/6}) - 6) + ((6+6)/6)^6) \\
&:= 7 + (((7777 + ((7+7)/7)) + 77) + 7) \\
&:= 8 \times (8+8) + (88 \times 88 - ((8+8)/8)) \\
&:= 9 \times 999 - ((9999 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7871 &:= 1 + ((111 \times (((1+11)^{1+1}/(1+1)) - 1)) - 11) \\
&:= (2 \times 2 \times 22)^2 + ((2^{2 \times (2+2)} - 2)/2) \\
&:= ((33 - 3/3) \times (3 \times 3 \times 3^3 + 3)) - 3/3 \\
&:= 444/4 + (4 \times (44 \times 44 + 4)) \\
&:= 5 \times (5 \times 5 - 5) + ((5/5 + 5)^5 - 5) \\
&:= 6 + ((66/6) \times ((66/6) \times (66 - 6/6))) \\
&:= 7 + ((7777 + ((77 - 7)/7)) + 77) \\
&:= 8 \times (8+8) + (88 \times 88 - 8/8) \\
&:= 9 \times 999 - (9999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7872 &:= ((1+11)^{1+1+1}) + ((1+1+1) \times (1+1)^{11}) \\
&:= 2^{2+2} \times (2 \times (2+2) + 22^2) \\
&:= (33 - 3/3) \times (3 \times 3 \times 3^3 + 3) \\
&:= 4 \times (44 \times 44 + 4 \times (4+4)) \\
&:= 5/5 + (((5/5 + 5)^5 - 5) + 5 \times (5 \times 5 - 5)) \\
&:= 6 \times 6 + (((6^{6-6/6}) - 6) + 66) \\
&:= 7 + ((7777 + (77/7)) + 77) \\
&:= 8 \times ((888 + 88) + 8) \\
&:= (9/9 + 9 \times 9) \times (99 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7873 &:= 1 + (((1+11)^{1+1+1}) + ((1+1+1) \times (1+1)^{11})) \\
&:= 2/2 + (2^{2+2} \times (2 \times (2+2) + 22^2)) \\
&:= ((33+3) \times ((3+3)^3 + 3)) - 33/3 \\
&:= 4/4 + (4 \times (44 \times 44 + 4 \times (4+4))) \\
&:= (5 \times (5 \times ((5 \times 5 + 5^5)/(5+5))) - (5+5)/5) \\
&:= 6 \times 6 + (((6^{6-6/6}) - 6) + 66) + 6/6 \\
&:= 7 \times (7+7) + (7777 - ((7+7)/7)) \\
&:= 8/8 + (88 \times 88 + 8 \times (8+8)) \\
&:= 9 + (((9 \times (9 \times 99 - (9+9))) - ((9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7874 &:= ((1+1) \times ((1+1+1) \times 11^{1+1+1})) - (1+111) \\
&:= 2 + (2^{2+2} \times (2 \times (2+2) + 22^2)) \\
&:= 3 \times 33 + (((3+3)^{3-3/3+3}) - 3/3) \\
&:= ((4+4)/4 - 4^4) \times (4/4 - 4 \times (4+4)) \\
&:= (5 - 5/5)^5 + (5 \times (5 \times 5 \times 55 - 5)) \\
&:= (6^{6-6/6}) + (((666 - 6)/6) - (6+6)) \\
&:= 7 \times (7+7) + (7777 - 7/7) \\
&:= 8 \times (8+8) + (88 \times 88 + ((8+8)/8)) \\
&:= 9 + (((9 \times (9 \times 99 - (9+9))) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7875 &:= ((1+1) \times ((1+1+1) \times 11^{1+1+1})) - 111 \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - (2 \times 22 + 2) \\
&:= 3 \times (3^3 \times (3 \times 33 - 3)) + 33 \\
&:= (44 + 4/4) \times (4 \times 44 - 4/4) \\
&:= 5 \times (5 \times ((5 \times 5 + 5^5)/(5+5))) \\
&:= 666/6 + ((6^{6-6/6}) - (6+6)) \\
&:= 7 \times (7+7) + 7777 \\
&:= 8 \times (8+8) + ((88 \times 88 - 8) + (88/8)) \\
&:= 9 + ((9 \times (9 \times 99 - (9+9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7876 &:= 11 \times ((1+1)^{11} - 1 - 11^{1+1+1}) \\
&:= 2 \times ((2 \times (2 \times 22)^2 + 22)) + 22 \\
&:= 3 + (((33+3) \times ((3+3)^3 + 3)) - 33/3) \\
&:= 44 \times ((4 \times 44 - 4/4) + 4) \\
&:= 5 \times (5 \times 5 - 5) + (5/5 + 5)^5 \\
&:= 6 \times 6 + ((6^{6-6/6}) + ((6+6)/6)^6) \\
&:= 7/7 + (7777 + 7 \times (7+7)) \\
&:= 88/8 \times (((88+8)/8) + 8 \times 88) \\
&:= 9 + (((9 \times (9 \times 99 - (9+9))) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7877 &:= 11 \times ((1+1)^{11} - 1 - 11^{1+1+1}) + 1 \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - (2 \times 22) \\
&:= (3 \times (3+3))^3 + ((3-3/3)^{33/3} - 3) \\
&:= 4/4 + (44 \times ((4 \times 44 - 4/4) + 4)) \\
&:= 5/5 + (5 \times (5 \times 5 - 5) + (5/5 + 5)^5) \\
&:= 6 \times 6 + (((6^{6-6/6}) - 6/6) + 66) \\
&:= (7+7)/7 + (7777 + 7 \times (7+7)) \\
&:= 88 \times 88 + ((8-8/8) \times (88/8 + 8)) \\
&:= 9 + ((9 \times (9 \times 99 - (9+9))) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7878 &:= (1+1+11) \times (1+11 \times (111-1)/(1+1)) \\
&:= ((2 \times 2 \times 22 + 2)^2) - 222 \\
&:= (3+3) \times ((33/3)^3 - (3 \times (3+3))) \\
&:= 4 + (((4+4)/4 - 4^4) \times (4/4 - 4 \times (4+4))) \\
&:= (5+5)/5 + (5 \times (5 \times 5 - 5) + (5/5 + 5)^5) \\
&:= 6 \times 6 + ((6^{6-6/6}) + 66) \\
&:= 7777 + (7777/77) \\
&:= 8 + ((88 \times 88 - ((8+8)/8)) + 8 \times (8+8)) \\
&:= 9 + ((9 \times (9 \times 99 - (9+9))) + (99+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7879 &:= (((1+1) \times (11-1))^{1+1+1}) - 11^{1+1} \\
&:= (22-2)^{2/2+2} - (22/2)^2 \\
&:= 3/3 + ((3+3) \times ((33/3)^3 - (3 \times (3+3)))) \\
&:= 4 + ((44+4/4) \times (4 \times 44 - 4/4)) \\
&:= 5 + ((5 \times (5 \times 5 \times 55 - 5)) + (5 - 5/5)^5) \\
&:= 6 \times 6 + (((6^{6-6/6}) + 66) + 6/6) \\
&:= 7 + (((7777 + (77/7)) + 77) + 7) \\
&:= 8 + ((88 \times 88 - 8/8) + 8 \times (8+8)) \\
&:= 9 \times 999 - (9999 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7880 &:= (111 \times (((1+11)^{1+1}/(1+1)) - 1)) - 1 \\
&:= 22^2 + ((2 \times 2 \times 22 - 2)^2) \\
&:= (3 \times (3+3))^3 + (3 - 3/3)^{33/3} \\
&:= 4 + (44 \times ((4 \times 44 - 4/4) + 4)) \\
&:= 5 + (5 \times (5 \times ((5 \times 5 + 5^5)/(5+5)))) \\
&:= (6^{6-6/6}) + (((666 - 6)/6) - 6) \\
&:= 7777 + ((777 - 7)/7 - 7) \\
&:= 8 + (88 \times 88 + 8 \times (8+8)) \\
&:= 9 \times 999 - 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7881 &:= 111 \times (((1+11)^{1+1}/(1+1)) - 1) \\
&:= 2 + ((22-2)^{2/2+2} - (22/2)^2) \\
&:= ((33+3) \times ((3+3)^3 + 3)) - 3 \\
&:= 444/4 \times (((4^4 - 4)/4) + 4) + 4 \\
&:= 5 + (5 \times (5 \times 5 - 5) + (5/5 + 5)^5) \\
&:= 666/6 + ((6^{6-6/6}) - 6) \\
&:= 777/7 + (7777 - 7) \\
&:= 888/8 \times ((8 \times 8 - 8/8) + 8) \\
&:= 999/9 \times (9 \times 9 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7882 &:= 1 + (111 \times (((1+11)^{1+1}/(1+1)) - 1)) \\
&:= 2 + (((2 \times 2 \times 22 - 2)^2) + 22^2) \\
&:= 3/3 + (((33+3) \times ((3+3)^3 + 3)) - 3) \\
&:= 4 + (((4+4)/4 - 4^4) \times (4/4 - 4 \times (4+4))) + 4 \\
&:= 555/5 + ((5/5 + 5)^5 - 5) \\
&:= (6^{6-6/6}) + (((666 + 6)/6) - 6) \\
&:= 7 + (7777 + 7 \times (7+7)) \\
&:= 8 + ((88 \times 88 + 8 \times (8+8)) + ((8+8)/8)) \\
&:= 9/9 + (999/9 \times (9 \times 9 - (9/9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7883 &:= 1 + (1 + (111 \times (((1+11)^{1+1}/(1+1)) - 1))) \\
&:= 2 + (((22-2)^{2/2+2} - (22/2)^2) + 2) \\
&:= ((33+3) \times ((3+3)^3 + 3)) - 3/3 \\
&:= 4 + (((44+4/4) \times (4 \times 44 - 4/4)) + 4) \\
&:= (5/5 + 5)^5 + ((555 + 5)/5 - 5) \\
&:= 6 \times (6+6+6) + ((6^{6-6/6}) - 6/6) \\
&:= 7 + ((7777 + 7 \times (7+7)) + 7/7) \\
&:= 8 \times (8+8) + (88 \times 88 + (88/8)) \\
&:= (((9+9)/9)^9) + (9 \times (9 \times (9 \times 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7884 &:= (1+1+1) \times ((1+11) \times (((1+1) \times (111-1)) - 1)) \\
&:= (2^{2+2} + 2) \times (2 \times (222 - 2) - 2) \\
&:= (33+3) \times ((3+3)^3 + 3) \\
&:= 44 + ((4+4) \times (4 \times 4^4 - 44)) \\
&:= 55 + (((5/5 + 5)^5 - ((5+5)/5)) + 55) \\
&:= 6 \times (((6 \times 6 \times 6 \times 6 + 6) + 6) + 6) \\
&:= 7 + ((7777 + 7 \times (7+7)) + ((7+7)/7)) \\
&:= (8/8 + 8) \times (888 - ((88+8)/8)) \\
&:= (99+9) \times ((9/9 - 9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7885 &:= (11 \times ((1+1)^{11} - 11^{1+1+1})) - 1 - 1 \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - (2 + 2 + 2)^2 \\
&:= 3/3 + ((33+3) \times ((3+3)^3 + 3)) \\
&:= 4 + (444/4 \times (((4^4 - 4)/4) + 4) + 4) \\
&:= 5 + (5 \times (5 \times ((5 \times 5 + 5^5)/(5+5)))) + 5 \\
&:= 6/6 + (6 \times (6+6+6) + (6^{6-6/6})) \\
&:= 7 + ((7777/77) + 7777) \\
&:= ((8/8 + 8) \times (888 - 88/8)) - 8 \\
&:= 9/9 + ((99+9) \times ((9/9 - 9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7886 &:= (11 \times ((1+1)^{11} - 11^{1+1+1})) - 1 \\
&:= 2 + ((2^{2+2} + 2) \times (2 \times (222 - 2) - 2)) \\
&:= 3 + (((33+3) \times ((3+3)^3 + 3)) - 3/3) \\
&:= (4 \times ((4+4) \times (4^4 - 4) - 44)) - (4+4)/4 \\
&:= 55 + ((5/5 + 5)^5 + 55) \\
&:= (6^{6-6/6}) + (666 - 6)/6 \\
&:= 77/7 + (7777 + 7 \times (7+7)) \\
&:= ((8/8 + 8) \times (888 - ((8+8)/8))) - 88 \\
&:= 9 + (((9 \times (9 \times 99 - (9+9))) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7887 &:= 11 \times ((1+1)^{11} - 11^{1+1+1}) \\
&:= 22 + ((2 \times 2 \times 22)^2 + (22/2)^2) \\
&:= 3 + ((33+3) \times ((3+3)^3 + 3)) \\
&:= (4 \times ((4+4) \times (4^4 - 4) - 44)) - 4/4 \\
&:= 555/5 + (5/5 + 5)^5 \\
&:= 666/6 + (6^{6-6/6}) \\
&:= 7777 + (777 - 7)/7 \\
&:= 8 + (((88 \times 88 - 8/8) + 8 \times (8+8)) + 8) \\
&:= 99/9 \times (9 \times 9 \times 9 - (99+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7888 &:= 1 + (11 \times ((1+1)^{11} - 11^{1+1+1})) \\
&:= 2 \times (2 \times ((2 \times 22)^2 + (2+2+2)^2)) \\
&:= 3 + (((33+3) \times ((3+3)^3 + 3)) + 3/3) \\
&:= 4 \times ((4+4) \times (4^4 - 4) - 44) \\
&:= (5/5 + 5)^5 + (555+5)/5 \\
&:= (6^{6-6/6}) + (666+6)/6 \\
&:= 777/7 + 7777 \\
&:= 8 + ((88 \times 88 + 8 \times (8+8)) + 8) \\
&:= 9 + (9 \times 999 - (9999+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7889 &:= (((1+1) \times (11-1))^{1+1+1}) - 111 \\
&:= (22-2)^{2/2+2} - 222/2 \\
&:= (33/3)^3 + ((3 \times 3 \times 3^{3+3}) - 3) \\
&:= 4/4 + (4 \times ((4+4) \times (4^4 - 4) - 44)) \\
&:= (5/5 + 5)^5 + (555+5+5)/5 \\
&:= (6^{6-6/6}) + (((666+6) + 6)/6) \\
&:= 7 \times (77 \times (7+7) + 7 \times 7) \\
&:= 8 + (888/8 \times ((8 \times 8 - 8/8) + 8)) \\
&:= 9 + (9 \times 999 - 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7890 &:= 1 + (((1+1) \times (11-1))^{1+1+1}) - 111 \\
&:= 2 + (((2 \times (2+2+2))^2) + (2 \times 2 \times 22)^2) \\
&:= 3 + (((33+3) \times ((3+3)^3 + 3)) + 3) \\
&:= (4+4)/4 + (4 \times ((4+4) \times (4^4 - 4) - 44)) \\
&:= (5 \times ((5-5/5)^5 + 555)) - 5 \\
&:= 6 + (6 \times (6+6+6) + (6^{6-6/6})) \\
&:= 7/7 + (7 \times (77 \times (7+7) + 7 \times 7)) \\
&:= 8 + (((88 \times 88 + 8 \times (8+8)) + ((8+8)/8)) + 8) \\
&:= 9 + (999/9 \times (9 \times 9 - (9/9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7891 &:= 1 + (1 + (((1+1) \times (11-1))^{1+1+1}) - 111) \\
&:= 2 + ((22-2)^{2/2+2} - 222/2) \\
&:= 3 + (((33+3) \times ((3+3)^3 + 3)) + 3/3 + 3) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) - 44)) - 4/4) \\
&:= 5 + (((5/5+5)^5 + 55) + 55) \\
&:= 6 + ((6 \times (6+6+6) + (6^{6-6/6})) + 6/6) \\
&:= (7+7)/7 + (7 \times (77 \times (7+7) + 7 \times 7)) \\
&:= 8 + ((88 \times 88 + 8 \times (8+8)) + (88/8)) \\
&:= ((9/9+99) \times (9 \times 9 - ((9+9)/9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7892 &:= 11 + (111 \times (((1+1)^{1+1}/(1+1)) - 1)) \\
&:= 2 \times (2 \times ((2 \times 22)^2 + (2+2+2)^2) + 2) \\
&:= (33/3)^3 + (3 \times 3 \times 3^{3+3}) \\
&:= 4 + (4 \times ((4+4) \times (4^4 - 4) - 44)) \\
&:= 5 + (555/5 + (5/5+5)^5) \\
&:= 6 + (((666-6)/6) + (6^{6-6/6})) \\
&:= 77 + ((7777 - (77/7)) + 7 \times 7) \\
&:= 8 + ((8/8+8) \times (888 - ((88+8)/8))) \\
&:= 999 \times (9 - 9/9) - (9/9+99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7893 &:= 1 + (11 + (111 \times (((1+1)^{1+1}/(1+1)) - 1))) \\
&:= 2 + (((22-2)^{2/2+2} - 222/2) + 2) \\
&:= 3 \times (((3 \times 3 + 3) \times ((3+3)^3 + 3)) + 3) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) - 44)) + 4/4) \\
&:= 5 + ((555+5)/5 + (5/5+5)^5) \\
&:= 6 + (666/6 + (6^{6-6/6})) \\
&:= 7 + ((7777 + 7 \times (7+7)) + (77/7)) \\
&:= (8/8+8) \times (888 - 88/8) \\
&:= 999 \times (9 - 9/9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7894 &:= (1+1) \times (((1+1) \times ((1+1+1) \times (111-1)) - 1)) \\
&:= 2 \times (((2^{2+2+2} - 2/2)^2) - 22) \\
&:= 3 \times 3 + (((33+3) \times ((3+3)^3 + 3)) + 3/3) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) - 44)) + (4+4)/4) \\
&:= (5-5/5)^5 + (5 \times 5 \times 5 \times 55 - 5) \\
&:= 6 + ((666+6)/6 + (6^{6-6/6})) \\
&:= 7 + ((777-7)/7 + 7777) \\
&:= 8/8 + ((8/8+8) \times (888 - 88/8)) \\
&:= 9/9 + (999 \times (9 - 9/9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7895 &:= 111 + ((1+1111) \times (1 + ((1+1) \times (1+1+1)))) \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - 22 - 2 - 2 \\
&:= 3 + ((3 \times 3 \times 3^{3+3}) + (33/3)^3) \\
&:= 4 \times 4^4 + ((44/4 \times (4/4+4)^4) - 4) \\
&:= 5 \times ((5-5/5)^5 + 555) \\
&:= 6 + (((666+6) + 6)/6) + (6^{6-6/6}) \\
&:= 7 + (777/7 + 7777) \\
&:= 8 \times 8 + ((88 \times 88 - 8/8) + 88) \\
&:= ((9-9/9) \times (999 - (99/9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7896 &:= (1+1) \times ((1+11) \times (((1+1+1) \times (111-1)) - 1)) \\
&:= (22 \times (((22-2/2+2)^2) - 2)) - 2 \\
&:= (3^3 - 3) \times (333 - (3/3+3)) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) - 44)) + 4) \\
&:= 5 \times 5 \times 5 + ((5/5+5)^5 - 5) \\
&:= (6+6) \times (666 - ((6+6)/6+6)) \\
&:= 7 + (7 \times (77 \times (7+7) + 7 \times 7)) \\
&:= 8 \times 8 + (88 \times 88 + 88) \\
&:= (9-9/9) \times (999 - (99+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7897 &:= (11 \times ((11-1-1)^{1+1+1} - 11)) - 1 \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - 22 - 2 \\
&:= 3/3 + ((3^3 - 3) \times (333 - (3/3+3))) \\
&:= ((4^4 - 4/4) \times (4 \times (4+4) - 4/4)) - 4 - 4 \\
&:= 5 + ((555/5 + (5/5+5)^5) + 5) \\
&:= (6^{6-6/6}) + (((66/6) \times (66/6))) \\
&:= 7 + ((7 \times (77 \times (7+7) + 7 \times 7)) + 7/7) \\
&:= 8/8 + ((88 \times 88 + 88) + 8 \times 8) \\
&:= 9 \times 9 \times 99 - (999+99)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7898 &:= 11 \times ((11-1-1)^{1+1+1} - 11) \\
&:= 22 \times (((22 - (2/2+2))^2) - 2) \\
&:= 33/3 \times (3^{3+3} - 33/3) \\
&:= 44/4 \times ((4 \times (4 \times 44 + 4)) - (4+4)/4) \\
&:= (5/5+5)^5 + ((555+55)/5) \\
&:= (6^{6-6/6}) + ((666+66)/6) \\
&:= 7777 + (((7+7)/7)^7 - 7) \\
&:= 8 \times 8 + ((88 \times 88 + ((8+8)/8)) + 88) \\
&:= 99/9 \times (9 \times 9 \times 9 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7899 &:= 1 + (11 \times ((11-1-1)^{1+1+1} - 11)) \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - 22 \\
&:= (3 \times (33/3 + 3)^3) - 333 \\
&:= 4 \times 4^4 + (44/4 \times (4/4+4)^4) \\
&:= (5-5/5)^5 + 5 \times 5 \times 5 \times 55 \\
&:= 6 + ((666/6 + (6^{6-6/6})) + 6) \\
&:= 7777 + (777+77)/7 \\
&:= 8 + (((88 \times 88 + 8 \times (8+8)) + (88/8)) + 8) \\
&:= 9 \times 9 \times 99 - (999/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7900 &:= 1 + (1 + (11 \times ((11-1-1)^{1+1+1} - 11))) \\
&:= 2 + (22 \times (((22 - (2/2+2))^2) - 2)) \\
&:= 3/3 + ((3 \times (33/3 + 3)^3) - 333) \\
&:= (44 \times (4 \times 44 + 4)) - 4 \times 4 - 4 \\
&:= 5 + (5 \times ((5-5/5)^5 + 555)) \\
&:= 6 + (((666+6)/6 + (6^{6-6/6})) + 6) \\
&:= 77/7 + (7 \times (77 \times (7+7) + 7 \times 7)) \\
&:= ((8/8-88) + 8) \times ((88-888)/8) \\
&:= (9/9+99) \times (9 \times 9 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7901 &:= 1 + (1 + (1 + (11 \times ((11-1-1)^{1+1+1} - 11)))) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) - 22) \\
&:= ((33/3 + 3 \times 3)^3) - 3 \times 33 \\
&:= ((4^4 - 4/4) \times (4 \times (4+4) - 4/4)) - 4 \\
&:= 5 \times 5 \times 5 + (5/5+5)^5 \\
&:= 66 + (((6^{6-6/6}) - (6/6+6)) + 66) \\
&:= 7 + (((777-7)/7 + 7777) + 7) \\
&:= 8 + ((8/8+8) \times (888 - 88/8)) \\
&:= 9 \times 999 - ((99 \times 99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7902 &:= (1+1) \times (((1+1)^{1+1+1}) - (1 + (1+11)^{1+1})) \\
&:= (2^{2+2} + 2) \times (((22-2/2)^2) - 2) \\
&:= (3+3) \times (((3+3) \times ((3+3)^3 + 3)) + 3) \\
&:= ((4+4)/4 + 4 \times 4) \times (444 - (4/4+4)) \\
&:= 5/5 + ((5/5+5)^5 + 5 \times 5 \times 5) \\
&:= 66 + (((6^{6-6/6}) - 6) + 66) \\
&:= 7 + ((777/7 + 7777) + 7) \\
&:= (8/8+8) \times ((8-88)/8 + 888) \\
&:= 9 \times 9 \times 99 - (99+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7903 &:= ((1+1) \times (((1+1)^{1+11}) - (1+11)^{1+1})) - 1 \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) - 22) + 2 \\
&:= 3/3 + ((3+3) \times (((3+3) \times ((3+3)^3 + 3)) + 3)) \\
&:= (44 \times (4 \times 44 + 4)) - (4 \times 4 + 4/4) \\
&:= 5 \times 5 \times 5 + ((5/5 + 5)^5 + ((5+5)/5)) \\
&:= ((6+6) \times (666 - 6)) - (66/6 + 6) \\
&:= 77 + (7777 + 7 \times 7) \\
&:= ((8/8 + 8) \times 888) - (8/8 + 88) \\
&:= 9/9 + (9 \times 9 \times 99 - (99 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7904 &:= (1+1) \times (((1+1)^{1+11}) - (1+11)^{1+1}) \\
&:= 2 \times (2 \times ((2 \times 22)^2 + 2 \times (22 - 2))) \\
&:= 3 + (((33/3 + 3 \times 3)^3) - 3 \times 33) \\
&:= 4 \times ((44 \times 44 - 4) + 44) \\
&:= 5 + (5 \times 5 \times 5 \times 55 + (5 - 5/5)^5) \\
&:= (6^{6-6/6}) + (((6+6)/6)^{6/6+6}) \\
&:= (7/7 - 77) \times (7 - 777/7) \\
&:= ((8/8 + 8) \times 888) - 88 \\
&:= (9 - 9/9) \times (999 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7905 &:= 1 + ((1+1) \times (((1+1)^{1+11}) - (1+11)^{1+1})) \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - 2^{2+2} \\
&:= ((3+3) \times (33/3)^3) - 3 \times 3^3 \\
&:= (4^4 - 4/4) \times (4 \times (4+4) - 4/4) \\
&:= 5 + ((5 \times ((5 - 5/5)^5 + 555)) + 5) \\
&:= 6 + (((666/6 + (6^{6-6/6})) + 6) + 6) \\
&:= 7777 + ((7+7)/7)^7 \\
&:= ((8/8 + 88)^{(8+8)/8}) - 8 - 8 \\
&:= 9 + ((9 - 9/9) \times (999 - (99 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7906 &:= (1+1) \times (1 + (((1+1)^{1+11}) - (1+11)^{1+1})) \\
&:= 2 + (2 \times (2 \times ((2 \times 22)^2 + 2 \times (22 - 2)))) \\
&:= 3/3 + (((3+3) \times (33/3)^3) - 3 \times 3^3) \\
&:= 4/4 + ((4^4 - 4/4) \times (4 \times (4+4) - 4/4)) \\
&:= 5 + ((5/5 + 5)^5 + 5 \times 5 \times 5) \\
&:= 66 + ((6^{6-6/6}) + ((6+6)/6)^6) \\
&:= 7/7 + (7777 + ((7+7)/7)^7) \\
&:= 8/8 + (((8/8 + 88)^{(8+8)/8}) - (8+8)) \\
&:= 9 \times 9 \times 99 - ((999 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7907 &:= (11 \times (11 - 1 - 1)^{1+1+1}) - (1 + 111) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) - 2^{2+2}) \\
&:= 3 + (((33/3 + 3 \times 3)^3) - 3 \times 33) + 3 \\
&:= 4 + ((44 \times (4 \times 44 + 4)) - (4 \times 4 + 4/4)) \\
&:= 5 + (((5/5 + 5)^5 + 5 \times 5 \times 5) + 5/5) \\
&:= 66 + (((6^{6-6/6}) - 6/6) + 66) \\
&:= 7 + ((7 \times (77 \times (7+7) + 7 \times 7)) + (77/7)) \\
&:= 8 \times 8 + ((88 \times 88 + (88/8)) + 88) \\
&:= 9 \times 9 \times 99 - ((999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7908 &:= (11 \times (11 - 1 - 1)^{1+1+1}) - 111 \\
&:= (2 + 2 + 2) \times ((2 + 2 + 2)^{2+2} + 22) \\
&:= 3 + (((3+3) \times (33/3)^3) - 3 \times 3^3) \\
&:= 4 + (4 \times ((44 \times 44 - 4) + 44)) \\
&:= 5 + (((5/5 + 5)^5 + 5 \times 5 \times 5) + ((5+5)/5)) \\
&:= 66 + ((6^{6-6/6}) + 66) \\
&:= 7 + (((777 - 7)/7 + 7777) + 7) + 7 \\
&:= 8 \times 8 \times 8 + ((88 - ((8+8)/8))^{(8+8)/8}) \\
&:= 9 \times 9 \times 99 - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7909 &:= 11 \times (1 + ((11 - 1 - 1)^{1+1+1} - 11)) \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - (2 \times (2 + 2 + 2)) \\
&:= 33/3 \times (((3 - 33)/3) + 3^{3+3}) \\
&:= (44 \times (4 \times 44 + 4)) - 44/4 \\
&:= 5 + ((5 \times 5 \times 5 \times 55 + (5 - 5/5)^5) + 5) \\
&:= ((6+6) \times (666 - 6)) - 66/6 \\
&:= 7 + (((777/7 + 7777) + 7) + 7) \\
&:= 88/8 \times (((8 \times 88 - 8/8) + 8) + 8) \\
&:= 99/9 \times (9 \times 9 \times 9 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7910 &:= ((111 - 11 - 11)^{1+1}) - 11 \\
&:= 222 + (2 \times (2^{2+2+2} - 2)^2) \\
&:= (3 \times (3 - 33)) + ((33/3 + 3 \times 3)^3) \\
&:= (4 - 44)/4 + (44 \times (4 \times 44 + 4)) \\
&:= 5^5 + (55 \times (((5+5)/5)^5 + 55)) \\
&:= (6 - 66)/6 + ((6+6) \times (666 - 6)) \\
&:= 7 + (7777 + 77) + 7 \times 7 \\
&:= ((8/8 + 88)^{(8+8)/8}) - 88/8 \\
&:= 9 \times 9 \times 99 - (9/9 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7911 &:= 1 + (((111 - 11 - 11)^{1+1}) - 11) \\
&:= ((2 - 22)/2) + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= 3 \times (3 \times ((33 \times 3^3) - (3 \times 3 + 3))) \\
&:= (44 \times (4 \times 44 + 4)) - (4/4 + 4 + 4) \\
&:= 5 + (((5/5 + 5)^5 + 5 \times 5 \times 5) + 5) \\
&:= (((6 - 66) + 6)/6) + ((6+6) \times (666 - 6)) \\
&:= 7 + ((7/7 - 77) \times (7 - 777/7)) \\
&:= (8/8 + 8) \times (888 - 8/8 - 8) \\
&:= 9 \times 9 \times 99 - (99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7912 &:= 1 + (1 + (((111 - 11 - 11)^{1+1}) - 11)) \\
&:= 2 \times (2 \times (((2 \times 22)^2 - 2) + 2 \times 22)) \\
&:= 3 + (33/3 \times (((3 - 33)/3) + 3^{3+3})) \\
&:= (44 \times (4 \times 44 + 4)) - 4 - 4 \\
&:= 5 \times 5 + (555/5 + (5/5 + 5)^5) \\
&:= ((6+6) \times (666 - 6)) - ((6+6)/6 + 6) \\
&:= 7 + (7777 + ((7+7)/7)^7) \\
&:= (88 \times ((8+8)/8 + 88)) - 8 \\
&:= 9/9 + (9 \times 9 \times 99 - (99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7913 &:= 1 + (1 + (1 + (((111 - 11 - 11)^{1+1}) - 11))) \\
&:= ((22/2 + 2)^2) + (2 \times 2 \times 22)^2 \\
&:= 3 + (((33/3 + 3 \times 3)^3) + (3 \times (3 - 33))) \\
&:= 4 + ((44 \times (4 \times 44 + 4)) - 44/4) \\
&:= 5 \times 5 + ((555 + 5)/5 + (5/5 + 5)^5) \\
&:= ((6+6) \times (666 - 6)) - 6/6 - 6 \\
&:= 7 + ((7777 + ((7+7)/7)^7) + 7/7) \\
&:= ((8/8 + 88)^{(8+8)/8}) - 8 \\
&:= 9 + ((9 - 9/9) \times (999 - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7914 &:= (1+1) \times ((1+1+1) \times (11^{1+1+1} - (1+11))) \\
&:= 2 + (2 \times (2 \times (((2 \times 22)^2 - 2) + 2 \times 22))) \\
&:= (3+3) \times ((33/3)^3 - (3 \times 3 + 3)) \\
&:= (44 \times (4 \times 44 + 4)) - ((4+4)/4 + 4) \\
&:= (5/5 + 5) \times (5 \times 5 \times 55 - (55 + 5/5)) \\
&:= ((6+6) \times (666 - 6)) - 6 \\
&:= (((77 + 7)/7 + 77)^{(7+7)/7}) - 7 \\
&:= 8/8 + (((8/8 + 88)^{(8+8)/8}) - 8) \\
&:= 9 \times 9 \times 99 + (((9 + 9 + 9)/9) - (99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7915 &:= (1 + (1 + 1 + 1 + 1)) \times ((11 \times (1 + 11)^{1+1}) - 1) \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - 2 - 2 - 2 \\
&:= 3/3 + ((3+3) \times ((33/3)^3 - (3 \times 3 + 3))) \\
&:= (44 \times (4 \times 44 + 4)) - 4/4 - 4 \\
&:= (55 \times (5 \times (5 \times 5 + 5) - 5)) - 55 - 5 \\
&:= 6/6 + (((6+6) \times (666 - 6)) - 6) \\
&:= 7/7 + (((77 + 7)/7 + 77)^{(7+7)/7}) - 7 \\
&:= 88/8 + (((8/8 + 8) \times 888) - 88) \\
&:= 9 + (9 \times 9 \times 99 - ((999 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7916 &:= ((11 \times (111 + (1+1)^{11})) - 1)/(1+1+1) \\
&:= 2 \times ((2 \times 2222) - (22^2 + 2)) \\
&:= ((33/3 + 3 \times 3)^3) - (3 \times 3^3 + 3) \\
&:= (44 \times (4 \times 44 + 4)) - 4 \\
&:= 5 + (((5/5 + 5)^5 + 5 \times 5 \times 5) + 5) + 5 \\
&:= (6+6)/6 + (((6+6) \times (666 - 6)) - 6) \\
&:= 77 + ((7 \times (7 \times 7 \times 7 + 777)) - 7/7) \\
&:= (88 \times ((8+8)/8 + 88)) - 8 \times 8/(8+8) \\
&:= 9 + (9 \times 9 \times 99 - ((999 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7917 &:= (1+1+1) \times (((1+1) \times 11 \times (11^{1+1} - 1)) - 1) \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - 2 - 2 \\
&:= (33 \times (3 \times 3 \times 3^3 - 3)) - 3 \\
&:= 4/4 + ((44 \times (4 \times 44 + 4)) - 4) \\
&:= 5 + ((555/5 + (5/5 + 5)^5) + 5 \times 5) \\
&:= ((6+6) \times (666 - 6)) - 6 \times 6/(6+6) \\
&:= 77 + (7 \times (7 \times 7 \times 7 + 777)) \\
&:= (8/8 - 88) \times (8 - (88/8 + 88)) \\
&:= 9 + (9 \times 9 \times 99 - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7918 &:= ((111 - 11 - 11)^{1+1}) - 1 - 1 - 1 \\
&:= ((2 + 2 + 2)^2 \times (222 - 2)) - 2 \\
&:= 3/3 + ((33 \times (3 \times 3 \times 3^3 - 3)) - 3) \\
&:= (44 \times (4 \times 44 + 4)) - (4 + 4)/4 \\
&:= 5 + (((555 + 5)/5 + (5/5 + 5)^5) + 5 \times 5) \\
&:= ((6 + 6) \times (666 - 6)) - (6 + 6)/6 \\
&:= 7 + (((7/7 - 77) \times (7 - 777/7)) + 7) \\
&:= (88 \times ((8 + 8)/8 + 88)) - (8 + 8)/8 \\
&:= 9 \times 9 \times 99 - ((9 + 9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7919 &:= ((111 - 11 - 11)^{1+1}) - 1 - 1 \\
&:= ((2 \times 2 \times 22 + 2/2)^2) - 2 \\
&:= ((33/3 + 3 \times 3^3) - 3 \times 3^3) \\
&:= (44 \times (4 \times 44 + 4)) - 4/4 \\
&:= (5 - 5/5)^5 + ((5 \times (5 \times 5 \times 55 + 5)) - 5) \\
&:= ((6 + 6) \times (666 - 6)) - 6/6 \\
&:= 7 + ((7777 + ((7 + 7)/7)^7) + 7) \\
&:= (88 \times ((8 + 8)/8 + 88)) - 8/8 \\
&:= 9 \times 9 \times 99 - (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7920 &:= ((111 - 11 - 11)^{1+1}) - 1 \\
&:= (2 + 2 + 2)^2 \times (222 - 2) \\
&:= 33 \times (3 \times 3 \times 3^3 - 3) \\
&:= 44 \times (4 \times 44 + 4) \\
&:= 5 \times (((5 - 5/5)^5 + 555) + 5) \\
&:= (6 + 6) \times (666 - 6) \\
&:= (7/7 + 7 + 7) \times (7 \times 77 - (77/7)) \\
&:= 88 \times ((8 + 8)/8 + 88) \\
&:= 99 \times (9 \times 9 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7921 &:= (111 - 11 - 11)^{1+1} \\
&:= (2 \times 2 \times 22 + 2/2)^2 \\
&:= 3/3 + (33 \times (3 \times 3 \times 3^3 - 3)) \\
&:= 4/4 + (44 \times (4 \times 44 + 4)) \\
&:= 5 \times (5 \times 5 + 5) + ((5/5 + 5)^5 - 5) \\
&:= 6/6 + ((6 + 6) \times (666 - 6)) \\
&:= ((77 + 7)/7 + 77)^{(7+7)/7} \\
&:= (8/8 + 88)^{(8+8)/8} \\
&:= 9/9 + (99 \times (9 \times 9 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7922 &:= 1 + ((111 - 11 - 11)^{1+1}) \\
&:= 2 + ((2 + 2 + 2)^2 \times (222 - 2)) \\
&:= 3 + (((33/3 + 3 \times 3^3) - 3 \times 3^3) \\
&:= (4 + 4)/4 + (44 \times (4 \times 44 + 4)) \\
&:= 5/5 + (((5/5 + 5)^5 - 5) + 5 \times (5 \times 5 + 5)) \\
&:= (6 + 6)/6 + ((6 + 6) \times (666 - 6)) \\
&:= 7/7 + (((77 + 7)/7 + 77)^{(7+7)/7}) \\
&:= 8/8 + ((8/8 + 88)^{(8+8)/8}) \\
&:= (9 + 9)/9 + (99 \times (9 \times 9 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7923 &:= 1 + (1 + ((111 - 11 - 11)^{1+1})) \\
&:= 2 + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= 3 + (33 \times (3 \times 3 \times 3^3 - 3)) \\
&:= 4 + ((44 \times (4 \times 44 + 4)) - 4/4) \\
&:= (5 \times (5 \times ((5^5 - 5)/(5 + 5) + 5)) - (5 + 5)/5) \\
&:= 6 \times 6 + (666/6 + (6^{6-6/6})) \\
&:= 7777 + (7 \times (7 + 7 + 7) - 7/7) \\
&:= (8 + 8)/8 + ((8/8 + 88)^{(8+8)/8}) \\
&:= 9 \times 9 \times 99 + (((9 + 9 + 9)/9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7924 &:= 1 + (1 + (1 + ((111 - 11 - 11)^{1+1}))) \\
&:= 2 + (((2 + 2 + 2)^2 \times (222 - 2)) + 2) \\
&:= 3 + ((33 \times (3 \times 3 \times 3^3 - 3)) + 3/3) \\
&:= 4 + (44 \times (4 \times 44 + 4)) \\
&:= (5 - 5/5)^5 + (5 \times (5 \times 5 \times 55 + 5)) \\
&:= 6 + (((6 + 6) \times (666 - 6)) - ((6 + 6)/6)) \\
&:= 7777 + 7 \times (7 + 7 + 7) \\
&:= 88/8 + (((8/8 + 88)^{(8+8)/8}) - 8) \\
&:= 9 \times 9 \times 99 + (((9 \times 9 - 9)/(9 + 9)) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7925 &:= 1 + (1 + (1 + (1 + ((111 - 11 - 11)^{1+1})))) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) + 2) \\
&:= 3 + (((33/3 + 3 \times 3^3) - 3 \times 3^3) + 3) \\
&:= 4 + ((44 \times (4 \times 44 + 4)) + 4/4) \\
&:= 5 \times (5 \times ((5^5 - 5)/(5 + 5) + 5)) \\
&:= 6 + (((6 + 6) \times (666 - 6)) - 6/6) \\
&:= 7/7 + (7777 + 7 \times (7 + 7 + 7)) \\
&:= ((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) - 88/8 \\
&:= 9 \times (9 \times 99 - 9) - (99 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7926 &:= (1 + 1) \times ((1 + 1 + 1) \times 1 + 11 \times (11^{1+1} - 1)) \\
&:= 2 + (((2 + 2 + 2)^2 \times (222 - 2)) + 2) + 2) \\
&:= 3 + ((33 \times (3 \times 3 \times 3^3 - 3)) + 3) \\
&:= 4 + ((44 \times (4 \times 44 + 4)) + (4 + 4)/4) \\
&:= 5 \times (5 \times 5 + 5) + (5/5 + 5)^5 \\
&:= 6 + ((6 + 6) \times (666 - 6)) \\
&:= 7 + (((7777 + ((7 + 7)/7)^7) + 7) + 7) \\
&:= 8 + ((88 \times ((8 + 8)/8 + 88)) - ((8 + 8)/8)) \\
&:= 9 \times (9 \times 99 - 9) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7927 &:= ((1 + 1) \times (((1 + 1)^{1+1}) - (11 \times (1 + 1)))) - 1 \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) + 2) + 2) \\
&:= (((3 \times (3 + 3)) + 3)^3) - ((33/3)^3 + 3) \\
&:= 4 + (((44 \times (4 \times 44 + 4)) - 4/4) + 4) \\
&:= 5/5 + (5 \times (5 \times 5 + 5) + (5/5 + 5)^5) \\
&:= 6 + (((6 + 6) \times (666 - 6)) + 6/6) \\
&:= 7 + ((7/7 + 7 + 7) \times (7 \times 77 - (77/7))) \\
&:= 8 + ((88 \times ((8 + 8)/8 + 88)) - 8/8) \\
&:= 9 \times (9 \times 99 - 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7928 &:= (1 + 1) \times (((1 + 1)^{1+1}) - (11 \times (1 + 1))) \\
&:= 2 \times (2 \times (((2 \times 22)^2 + 2 \times 22) + 2)) \\
&:= (3 \times (3 - 3^3)) + ((33/3 + 3 \times 3^3) \\
&:= 4 + ((44 \times (4 \times 44 + 4)) + 4) \\
&:= (5 + 5)/5 + (5 \times (5 \times 5 + 5) + (5/5 + 5)^5) \\
&:= ((6 + 6) \times 666) - ((6 + 6)/6)^6 \\
&:= 7 + (((77 + 7)/7 + 77)^{(7+7)/7}) \\
&:= 8 + (88 \times ((8 + 8)/8 + 88)) \\
&:= 9 \times (9 \times 99 - 9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7929 &:= 1 + ((1 + 1) \times (((1 + 1)^{1+1}) - (11 \times (1 + 1)))) \\
&:= 2 \times (2 + 2) + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= 3 \times ((33 \times (3 \times 3^3 - 3/3)) + 3) \\
&:= 4 + (((44 \times (4 \times 44 + 4)) + 4/4) + 4) \\
&:= 5 + ((5 \times (5 \times 5 \times 55 + 5)) + (5 - 5/5)^5) \\
&:= 6 + ((666/6 + (6^{6-6/6})) + 6 \times 6) \\
&:= 77 + ((7777 - ((7 + 7)/7)) + 77) \\
&:= 8 + ((8/8 + 88)^{(8+8)/8}) \\
&:= 9 \times (9 \times 99 - 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7930 &:= (1 + 1 + 11) \times (11 \times 111 - 1)/(1 + 1) \\
&:= 2 \times (((2^{2+2+2} - 2/2)^2) - (2 + 2)) \\
&:= (((3 \times (3 + 3)) + 3)^3) - (33/3)^3 \\
&:= (44 - 4)/4 + (44 \times (4 \times 44 + 4)) \\
&:= 5 + (5 \times (5 \times ((5^5 - 5)/(5 + 5) + 5))) \\
&:= ((66 - 6)/6) + ((6 + 6) \times (666 - 6)) \\
&:= 77 + ((7777 - 7/7) + 77) \\
&:= 8 + (((8/8 + 88)^{(8+8)/8}) + 8/8) \\
&:= 9/9 + (9 \times (9 \times 99 - 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7931 &:= 11 + (((111 - 11 - 11)^{1+1}) - 1) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) + 2 \times (2 + 2)) \\
&:= 33/3 + (33 \times (3 \times 3 \times 3^3 - 3)) \\
&:= 44/4 + (44 \times (4 \times 44 + 4)) \\
&:= 5 + (5 \times (5 \times 5 + 5) + (5/5 + 5)^5) \\
&:= 66/6 + ((6 + 6) \times (666 - 6)) \\
&:= 77 + (7777 + 77) \\
&:= 88/8 + (88 \times ((8 + 8)/8 + 88)) \\
&:= (9 + 9)/9 + (9 \times (9 \times 99 - 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7932 &:= 11 + ((111 - 11 - 11)^{1+1}) \\
&:= 22/2 + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= (3 + 3) \times ((33/3)^3 - 3 \times 3) \\
&:= (4 \times 4^4 \times (4 + 4)) - (4^4 + 4) \\
&:= (5/5 + 5)^5 + ((5^5 - 5)/(5 \times 5 - 5)) \\
&:= 6 + (((6 + 6) \times (666 - 6)) + 6) \\
&:= 7/7 + ((7777 + 77) + 77) \\
&:= 88/8 + ((8/8 + 88)^{(8+8)/8}) \\
&:= 9 \times 9 \times 99 + ((99 + 9)/9 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7933 &:= 1 + (11 + ((111 - 11 - 11)^{1+1})) \\
&:= (2 \times (2 + 2 + 2)) + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) - (33/3)^3 \\
&:= 4/4 + ((4 \times 4^4 \times (4 + 4)) - (4^4 + 4)) \\
&:= 5 \times 5 \times 5 + ((5/5 + 5)^5 + ((5 + 5)/5)^5) \\
&:= 6 + (((6 + 6) \times (666 - 6)) + 6/6) + 6 \\
&:= 77 + ((7777 + ((7 + 7)/7)) + 77) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) - (88/8)) \\
&:= ((9 - 99)/(9 + 9)) + 9 \times (9 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7934 &:= 1 + (1 + (11 + ((111 - 11 - 11)^{1+1}))) \\
&:= 2 \times (((2^{2+2+2} - 2/2)^2) - 2) \\
&:= ((33/3 + 3 \times 3)^3) - (33 + 33) \\
&:= (4 \times 4^4 \times (4 + 4)) - ((4 + 4)/4 + 4^4) \\
&:= 5 + (((5 \times (5 \times 5 \times 55 + 5)) + (5 - 5/5)^5) + 5) \\
&:= 6 + (((6 + 6) \times 666) - ((6 + 6)/6)^6) \\
&:= 7 + (((7/7 + 7 + 7) \times (7 \times 77 - (77/7))) + 7) \\
&:= ((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) - (8 + 8)/8 \\
&:= ((9 - 9 \times 9)/(9 + 9)) + 9 \times (9 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7935 &:= (1 + 1 + 1 + 1 + 11) \times (1 + 11 + 11)^{1+1} \\
&:= ((22/2 + 2) + 2) \times ((22 + 2/2)^2) \\
&:= (3^3 \times (3 \times 3 \times 33 - 3)) - 3 \\
&:= (4 \times 4^4 \times (4 + 4)) - (4/4 + 4^4) \\
&:= 5 + ((5 \times (5 \times ((5^5 - 5)/(5 + 5) + 5))) + 5) \\
&:= 6 + (((666/6 + (6^{6-6/6})) + 6 \times 6) + 6) \\
&:= 7 + (((77 + 7)/7 + 77)^{(7+7)/7} + 7) \\
&:= ((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) - 8/8 \\
&:= 9 \times (9 \times 99 - 9) - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7936 &:= ((11 \times (111 \times (1 + 1 + 11))) - 1)/(1 + 1) \\
&:= (2^{22/2+2}) - 2^{2 \times (2+2)} \\
&:= 3/3 + ((3^3 \times (3 \times 3 \times 33 - 3)) - 3) \\
&:= 4 \times ((4 + 4) \times (4^4 - 4 - 4)) \\
&:= (5/5 + 5)^5 + (5 \times ((5 + 5)/5)^5) \\
&:= 6 + (((6 + 6) \times (666 - 6)) + ((66 - 6)/6)) \\
&:= ((7 + 7)/7)^7 \times (((7 \times 7 - 7/7) + 7) + 7) \\
&:= (8 + 8) \times (8 \times 8 \times 8 - 8 - 8) \\
&:= 9 \times (9 \times 99 - 9) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7937 &:= (1 + (11 \times (111 \times (1 + 1 + 11))))/(1 + 1) \\
&:= 2^{2+2} + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= (3^3 \times (3 \times 3 \times 33 - 3)) - 3/3 \\
&:= 4/4 + (4 \times ((4 + 4) \times (4^4 - 4 - 4))) \\
&:= 5 + (((5^5 - 5)/(5 \times 5 - 5)) + (5/5 + 5)^5) \\
&:= 6 + (((6 + 6) \times (666 - 6)) + (66/6)) \\
&:= 7 \times 7 + (777/7 + 7777) \\
&:= 8 + (((8/8 + 88)^{(8+8)/8}) + 8) \\
&:= 9 \times (9 \times 99 - 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7938 &:= (1 + 1) \times (((1 + 1 + 1) \times (11 + (11 - 1)))^{1+1}) \\
&:= 2 \times ((2^{2+2+2} - 2/2)^2) \\
&:= 3^3 \times (3 \times 3 \times 33 - 3) \\
&:= (4 + 4)/4 + (4 \times ((4 + 4) \times (4^4 - 4 - 4))) \\
&:= ((5 - 5^5)/(5 + 5)) + (5 \times (55 \times (5 \times 5 + 5))) \\
&:= 6 + (((6 + 6) \times (666 - 6)) + 6) + 6 \\
&:= 7 \times ((77 \times (7 + 7) + 7 \times 7) + 7) \\
&:= (8 + 8)/8 + ((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) \\
&:= 9 \times (9 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7939 &:= 1 + ((1 + 1) \times (((1 + 1 + 1) \times (11 + (11 - 1)))^{1+1})) \\
&:= 2/2 + (2 \times ((2^{2+2+2} - 2/2)^2)) \\
&:= 3/3 + (3^3 \times (3 \times 3 \times 33 - 3)) \\
&:= 4 + ((4 \times 4^4 \times (4 + 4)) - (4/4 + 4^4)) \\
&:= (5 \times (5 \times ((5^5 + 5)/(5 + 5) + 5))) - 55/5 \\
&:= 6 + (((6 + 6) \times (666 - 6)) + 6/6) + 6 \\
&:= 7/7 + (7 \times ((77 \times (7 + 7) + 7 \times 7) + 7)) \\
&:= 8 + ((88 \times ((8 + 8)/8 + 88)) + (88/8)) \\
&:= 9/9 + 9 \times (9 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7940 &:= (1 + 1) \times (1 + (((1 + 1 + 1) \times (11 + (11 - 1)))^{1+1})) \\
&:= 2 + (2 \times ((2^{2+2+2} - 2/2)^2)) \\
&:= 3 + ((3^3 \times (3 \times 3 \times 33 - 3)) - 3/3) \\
&:= 4 + (4 \times ((4 + 4) \times (4^4 - 4 - 4))) \\
&:= 5 \times (((5^5 + 5/5)/(5 + 5)/5) + 5 \times 5) \\
&:= 6 + (((6 + 6) \times 666) - ((6 + 6)/6)^6) + 6 \\
&:= (7 + 7)/7 + (7 \times ((77 \times (7 + 7) + 7 \times 7) + 7)) \\
&:= 8 + (((8/8 + 88)^{(8+8)/8}) + (88/8)) \\
&:= (9 + 9)/9 + 9 \times (9 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7941 &:= ((11 - 1)^{1+1+1+1}) - (11 + (1 + 1)^{11}) \\
&:= 22 + (((2 \times 2 \times 22 + 2/2)^2) - 2) \\
&:= 3 + (3^3 \times (3 \times 3 \times 33 - 3)) \\
&:= 4 + ((4 \times ((4 + 4) \times (4^4 - 4 - 4))) + 4/4) \\
&:= 5 + ((5 \times ((5 + 5)/5)^5) + (5/5 + 5)^5) \\
&:= (6^{6-6/6}) + (66 \times (6 \times 6 - 6)/(6 + 6)) \\
&:= 77 + ((7777 + ((77 - 7)/7)) + 77) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) - (88/8)) + 8 \\
&:= ((9 + 9 + 9)/9) + 9 \times (9 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7942 &:= (1 + 1) \times (11 \times (((1 + 1) \times (11 - 1)) - 1)^{1+1}) \\
&:= 22 \times ((22 - (2/2 + 2))^2) \\
&:= 3 + ((3^3 \times (3 \times 3 \times 33 - 3)) + 3/3) \\
&:= 4 + ((4 \times ((4 + 4) \times (4^4 - 4 - 4))) + (4 + 4)/4) \\
&:= 55 + (555/5 + (5/5 + 5)^5) \\
&:= 66/6 \times ((6 + 6) \times (66 - 6) + ((6 + 6)/6)) \\
&:= 77 + ((7777 + (77/7)) + 77) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) - ((8 + 8)/8)) \\
&:= 99/9 \times (((9 + 9)/9) - 9) + 9 \times 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7943 &:= (1 + 1 + 11) \times (1 + 11 \times 111)/(1 + 1) \\
&:= 22 + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= 3 + (((3^3 \times (3 \times 3 \times 33 - 3)) - 3/3) + 3) \\
&:= 4 + (((4 \times 4^4 \times (4 + 4)) - (4/4 + 4^4)) + 4) \\
&:= 55 + ((555 + 5)/5 + (5/5 + 5)^5) \\
&:= 6 + (((6 + 6) \times (666 - 6)) + (66/6)) + 6 \\
&:= 7 + (((7 + 7)/7)^7 \times (((7 \times 7 - 7/7) + 7) + 7)) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) - 8/8) \\
&:= 9 \times (9 \times 99 - 9) + ((9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7944 &:= 1 + ((1 + 1 + 11) \times (1 + 11 \times 111)/(1 + 1)) \\
&:= 2 + (22 \times ((22 - (2/2 + 2))^2)) \\
&:= 3 + ((3^3 \times (3 \times 3 \times 33 - 3)) + 3) \\
&:= 4 + ((4 \times ((4 + 4) \times (4^4 - 4 - 4))) + 4) \\
&:= (5/5 + 5) \times (5 \times (55 + 5) + (5 - 5/5)^5) \\
&:= (6 + 6) \times (((6 + 6)/6 - 6) + 666) \\
&:= 7 + ((777/7 + 7777) + 7 \times 7) \\
&:= 8 + ((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) \\
&:= 9 + (9 \times (9 \times 99 - 9) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7945 &:= 1 + (1 + ((1 + 1 + 11) \times (1 + 11 \times 111)/(1 + 1))) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) + 22) \\
&:= 3 + (((3^3 \times (3 \times 3 \times 33 - 3)) + 3/3) + 3) \\
&:= 4 + (((4 \times ((4 + 4) \times (4^4 - 4 - 4))) + 4/4) + 4) \\
&:= ((5 \times 5 - 5)^{5-(5+5)/5}) - 55 \\
&:= (6 \times 6 - 6/6) \times (6 \times 6 \times 6 + 66/6) \\
&:= 7 + (7 \times ((77 \times (7 + 7) + 7 \times 7) + 7)) \\
&:= 8 + (((8/8 + 88)^{(8+8)/8}) + 8) + 8 \\
&:= 9 + (9 \times (9 \times 99 - 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7946 &:= (1 + 1) \times (((1 + 1)^{1+1+1}) - (1 + (1 + 11^{1+1}))) \\
&:= 2 + ((22 \times ((22 - (2/2 + 2))^2)) + 2) \\
&:= ((33/3 + 3 \times 3)^3) - (3^3 + 3^3) \\
&:= (4 + 4)/4 \times (((4^4 - 4)/4)^{(4+4)/4}) + 4 \\
&:= (5/5 + 5)^5 + ((5 \times ((5 \times 5 + 5) + 5)) - 5) \\
&:= (6 - 66)/6 + (6 \times ((6 \times (6 \times 6 \times 6 + 6)) - 6)) \\
&:= 7 + ((7 \times ((77 \times (7 + 7) + 7 \times 7) + 7)) + 7/7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) + ((8 + 8)/8)) \\
&:= 9 + (9 \times (9 \times 99 - 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7947 &:= (1 + 1 + 1) \times (((1 + 1) \times (11^{1+1+1} - 1)) - 11) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) + 22) + 2 \\
&:= 3 \times ((3 \times (3 \times (3 \times 3 \times 33 - 3))) + 3) \\
&:= 44/4 + (4 \times ((4 + 4) \times (4^4 - 4 - 4))) \\
&:= 5 + ((555/5 + (5/5 + 5)^5) + 55) \\
&:= ((66/6) \times (((6 \times 6)/(6 + 6))^6) - 6) - 6 \\
&:= 7 \times 7 + (((7 + 7)/7)^7 - 7) + 7777 \\
&:= 88/8 + ((8 + 8) \times (8 \times 8 \times 8 - 8 - 8)) \\
&:= 9 + 9 \times (9 \times 99 - 9)
\end{aligned}$$

- ▶ 7948 := $(1+1) \times (((1+1)^{1+11}) - (1+11^{1+1}))$
:= $2 \times ((222 \times (2^{2+2} + 2)) - 22)$
:= $33 \times 33 + (((3 \times (3+3)) + 3/3)^3)$
:= $(4 \times (4^4 \times (4+4) + 4)) - (4^4 + 4)$
:= $(5 \times (5 \times ((5^5 + 5)/(5+5) + 5))) - (5+5)/5$
:= $((6+6) \times 666) - (((6+6)/6 + 6 \times 6) + 6)$
:= $7777 + ((7 \times 7 \times 7 - 7)/(7+7))$
:= $((88+8)/8) + ((8+8) \times (8 \times 8 \times 8 - 8 - 8))$
:= $9 + (9 \times (9 \times 99 - 9) + 9/9)$
- ▶ 7949 := $((1+1) \times (((1+1)^{1+11}) - 11^{1+1})) - 1$
:= $(2^{22/2+2}) - (22^2 + 2)/2$
:= $33/3 + (3^3 \times (3 \times 3 \times 33 - 3))$
:= $44 + ((4^4 - 4/4) \times (4 \times (4+4) - 4/4))$
:= $(5 \times (5 \times ((5^5 + 5)/(5+5) + 5))) - 5/5$
:= $((6+6) \times 666) - (6 \times 6 + 6/6 + 6)$
:= $77/7 + (7 \times ((77 \times (7+7) + 7 \times 7) + 7))$
:= $8 \times 8 + (((8/8 + 8) \times (888 - 88/8)) - 8)$
:= $99/9 + 9 \times (9 \times 99 - 9)$
- ▶ 7950 := $(1+1) \times (((1+1)^{1+11}) - 11^{1+1})$
:= $(2^{22/2+2}) - 22^2/2$
:= $(3+3) \times ((33/3)^3 - (3+3))$
:= $(44 + 4^4)/4 \times ((444 - 4)/4 - 4)$
:= $5 \times (5 \times ((5^5 + 5)/(5+5) + 5))$
:= $((6+6) \times 666) - (6 \times 6 + 6)$
:= $((77 - 7)/7) \times ((77/7 + 777) + 7)$
:= $8 + (((8+8) \times (8 \times 8 \times 8 - 8 - 8)) - ((8+8)/8) + 8)$
:= $(99+9)/9 + 9 \times (9 \times 99 - 9)$
- ▶ 7951 := $1 + ((1+1) \times (((1+1)^{1+11}) - 11^{1+1}))$
:= $((2 - 22^2)/2) + (2^{22/2+2})$
:= $3/3 + ((3+3) \times ((33/3)^3 - (3+3)))$
:= $(4 \times (4^4 \times (4+4) + 4)) - (4/4 + 4^4)$
:= $(5/5 + 5)^5 + (5 \times ((5 \times 5 + 5) + 5))$
:= $6/6 + (((6+6) \times 666) - (6 \times 6 + 6))$
:= $77 + ((7777 - 7/7) + 7 \times (7+7))$
:= $8 + (((8+8) \times (8 \times 8 \times 8 - 8 - 8)) - 8/8 + 8)$
:= $9999 - ((9+9)/9)^{99/9}$
- ▶ 7952 := $((11-1)^{1+1+1+1}) - (1+1)^{11}$
:= $2 + ((2^{22/2+2}) - 22^2/2)$
:= $((3+3)^3 - 3)/3 \times ((333+3)/3)$
:= $4 \times (((4+4) \times (4^4 - 4 - 4)) + 4)$
:= $5/5 + ((5 \times ((5 \times 5 + 5) + 5)) + (5/5 + 5)^5)$
:= $((66 - 6/6) + 6) \times (666 + 6)/6$
:= $77 + (7777 + 7 \times (7+7))$
:= $8 + (((8+8) \times (8 \times 8 \times 8 - 8 - 8)) + 8)$
:= $(9 \times 9 - (9/9 + 9)) \times ((999 + 9)/9)$
- ▶ 7953 := $1 + (((11-1)^{1+1+1+1}) - (1+1)^{11})$
:= $(22/2 + 22) \times (22^2 - 2)/2$
:= $33 \times (((3^3+3) + 3)/3 - 3)$
:= $4/4 + (4 \times (((4+4) \times (4^4 - 4 - 4)) + 4))$
:= $5 + ((5 \times (5 \times ((5^5 + 5)/(5+5) + 5))) - ((5+5)/5))$
:= $66/6 \times (((6 \times 6)/(6+6))^6 - 6)$
:= $7/7 + ((7777 + 7 \times (7+7)) + 77)$
:= $88/8 \times ((88/8 + 8 \times 88) + 8)$
:= $9 + ((9 \times (9 \times 99 - 9) - ((9+9+9)/9)) + 9)$
- ▶ 7954 := $1 + (1 + (((11-1)^{1+1+1+1}) - (1+1)^{11}))$
:= $(22 - 2)^{2/2+2} - (2 \times 22 + 2)$
:= $3/3 + (33 \times (((3^3+3) + 3)/3 - 3))$
:= $(4+4)/4 + (4 \times (((4+4) \times (4^4 - 4 - 4)) + 4))$
:= $5 + ((5 \times (5 \times ((5^5 + 5)/(5+5) + 5))) - 5/5)$
:= $((6+6) \times 666) - ((6+6)/6 + 6 \times 6)$
:= $7 \times 7 + (7777 + ((7+7)/7)^7)$
:= $((8+8)/8) \times (((8 \times 8 - 8/8)^{(8+8)/8}) + 8)$
:= $(9/9 + 9 \times 9) \times (99 - ((9+9)/9))$
- ▶ 7955 := $((1+1+1) \times ((1+11) \times ((1+1) \times 111 - 1))) - 1$
:= $2 + ((22/2 + 22) \times (22^2 - 2)/2)$
:= $(3/3 + 33 + 3) \times ((3+3)^3 - 3/3)$
:= $((4 \times 4 + 4)^{4-4/4}) - (44 + 4/4)$
:= $5 + (5 \times (5 \times ((5^5 + 5)/(5+5) + 5)))$
:= $(6 \times 6 + 6/6) \times (6 \times 6 \times 6 - 6/6)$
:= $7 + (((7 \times 7 \times 7 - 7)/(7+7)) + 7777)$
:= $8 + (((8+8) \times (8 \times 8 \times 8 - 8 - 8)) + (88/8))$
:= $9 + ((9 \times (9 \times 99 - 9) - 9/9) + 9)$
- ▶ 7956 := $(1+1+1) \times ((1+11) \times ((1+1) \times 111 - 1))$
:= $(2^{2+2} + 2) \times (2 \times 222 - 2)$
:= $(3 \times 3^3 - 3) \times (3 \times 33 + 3)$
:= $((4 \times 4 + 4)^{4-4/4}) - 44$
:= $55 + ((5/5 + 5)^5 + 5 \times 5 \times 5)$
:= $6 \times ((6 \times (6 \times 6 \times 6 + 6)) - 6)$
:= $(77/7 + 7) \times (7 \times (7 \times 7 + 7 + 7) + 7/7)$
:= $(8/8 + 8) \times (888 - 8 \times 8/(8+8))$
:= $9 + (9 \times (9 \times 99 - 9) + 9)$
- ▶ 7957 := $1 + ((1+1+1) \times ((1+11) \times ((1+1) \times 111 - 1)))$
:= $2/2 + ((2^{2+2} + 2) \times (2 \times 222 - 2))$
:= $3/3 + ((3 \times 3^3 - 3) \times (3 \times 33 + 3))$
:= $4/4 + (((4 \times 4 + 4)^{4-4/4}) - 44)$
:= $55 + (((5/5 + 5)^5 + 5 \times 5 \times 5) + 5/5)$
:= $6/6 + (6 \times ((6 \times (6 \times 6 \times 6 + 6)) - 6))$
:= $(77 \times (7 \times (7+7) + 7)) - ((7+7)/7)^7$
:= $8 \times 8 + ((8/8 + 8) \times (888 - 88/8))$
:= $9 + ((9 \times (9 \times 99 - 9) + 9/9) + 9)$
- ▶ 7958 := $(1+1) \times (((1+1+1) \times (11^{1+1+1} - 1)) - 11)$
:= $((2 - 22) \times (2 - (22 - 2)^2)) - 2$
:= $((33/3 + 3 \times 3)^3) - (3 \times 3 + 33)$
:= $(4+4)/4 + (((4 \times 4 + 4)^{4-4/4}) - 44)$
:= $55 + (((5/5 + 5)^5 + 5 \times 5 \times 5) + ((5+5)/5))$
:= $(6+6)/6 + (6 \times ((6 \times (6 \times 6 \times 6 + 6)) - 6))$
:= $77 + ((777/7 - 7) + 7777)$
:= $((8/8 + 8) \times (888 - ((8+8)/8))) - 8 - 8$
:= $9 + (9 \times (9 \times 99 - 9) + (99/9))$
- ▶ 7959 := $((1+1) \times (((1+1)^{1+11}) - 111)) - 11$
:= $((2 - 22) \times (2 - (22 - 2)^2)) - 2/2$
:= $((3+3) \times (33/3)^3) - 3^3$
:= $4 + ((4 \times 4 + 4)^{4-4/4}) - (44 + 4/4)$
:= $(55 \times (5 \times (5 \times 5 + 5) - 5)) - (55/5 + 5)$
:= $6 + ((66/6) \times (((6 \times 6)/(6+6))^6 - 6))$
:= $(77 \times (777/7 - 7)) - 7 \times 7$
:= $88 + ((88 \times 88 - 8/8) + 8 \times (8+8))$
:= $9 + (9 \times (9 \times 99 - 9) + (99+9)/9)$
- ▶ 7960 := $1 + (((1+1) \times (((1+1)^{1+11}) - 111)) - 11)$
:= $(2 - 22) \times (2 - (22 - 2)^2)$
:= $3/3 + (((3+3) \times (33/3)^3) - 3^3)$
:= $4 + (((4 \times 4 + 4)^{4-4/4}) - 44)$
:= $5 + ((5 \times (5 \times ((5^5 + 5)/(5+5) + 5))) + 5)$
:= $6 + (((6+6) \times 666) - ((6+6)/6 + 6 \times 6))$
:= $7/7 + ((77 \times (777/7 - 7)) - 7 \times 7)$
:= $88 + (88 \times 88 + 8 \times (8+8))$
:= $9 \times (9 \times 99 - 9) + ((99+99)/9)$
- ▶ 7961 := $11 + ((1+1) \times (((1+1)^{1+11}) - 11^{1+1}))$
:= $2/2 + ((2 - 22) \times (2 - (22 - 2)^2))$
:= $((33/3 + 3 \times 3)^3) - (33 + 3 + 3)$
:= $((44 + 4/4) \times (4 \times 44 + 4/4)) - 4$
:= $5 + (((5/5 + 5)^5 + 5 \times 5 \times 5) + 55)$
:= $6 + ((6 \times 6 + 6/6) \times (6 \times 6 \times 6 - 6/6))$
:= $7 + ((7777 + ((7+7)/7)^7) + 7 \times 7)$
:= $88 \times (8+8) + ((88/8 - 8)^8 - 8)$
:= $9 \times (999 + 9) - 9999/9$
- ▶ 7962 := $(1+1) \times (((1+1+1) \times 11^{1+1+1}) - (1+11))$
:= $2 + ((2 - 22) \times (2 - (22 - 2)^2))$
:= $3 + (((3+3) \times (33/3)^3) - 3^3)$
:= $44 + ((44 \times (4 \times 44 + 4)) - (4+4)/4)$
:= $5 + (((5/5 + 5)^5 + 5 \times 5 \times 5) + 55) + 5/5$
:= $6 + (6 \times ((6 \times (6 \times 6 \times 6 + 6)) - 6))$
:= $7777 + ((7+7) \times (7+7) - (77/7))$
:= $8 + (((8+8) \times (8 \times 8 \times 8 - 8)) + ((8 - 888)/8))$
:= $9 \times 9 + (999/9 \times (9 \times 9 - (9/9 + 9)))$

$$\begin{aligned}
\blacktriangleright 7963 &:= 11 + (((11-1)^{1+1+1+1}) - (1+1)^{11}) \\
&:= 2 + (((2-22) \times (2 - (22-2)^2)) + 2/2) \\
&:= 3 + (((3+3) \times (33/3)^3) - 3^3) + 3/3 \\
&:= 44 + ((44 \times (4 \times 44 + 4)) - 4/4) \\
&:= (55 \times (5 \times (5 \times 5 + 5) - 5)) - (55 + 5)/5 \\
&:= 6 + ((6 \times ((6 \times (6 \times 6 \times 6 + 6)) - 6)) + 6/6) \\
&:= 7 + ((77/7 + 7) \times (7 \times (7 \times 7 + 7 + 7) + 7/7)) \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 - 8 - 8)) + (88/8)) + 8 \\
&:= 9 + ((9/9 + 9 \times 9) \times (99 - ((9+9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7964 &:= (1+1) \times (11 \times ((11 \times (11 \times (1+1+1))) - 1)) \\
&:= 222 + ((2 \times 2 \times 22)^2 - 2) \\
&:= ((33/3 + 3 \times 3)^3) - (33 + 3) \\
&:= 44 + (44 \times (4 \times 44 + 4)) \\
&:= (55 \times (5 \times (5 \times 5 + 5) - 5)) - 55/5 \\
&:= 66/6 \times ((66 \times 66 - 6 - 6)/6) \\
&:= 7 + ((77 \times (7 \times (7 + 7) + 7)) - ((7 + 7)/7)^7) \\
&:= 8 + ((8/8 + 8) \times (888 - 8 \times 8/(8+8))) \\
&:= 9 + (((9 \times (9 \times 99 - 9) - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7965 &:= 1 + ((1+1) \times (11 \times ((11 \times (11 \times (1+1+1))) - 1))) \\
&:= 222 + ((2 \times 2 \times 22)^2 - 2/2) \\
&:= 3 \times (3 \times ((33 \times 3^3) - (3+3))) \\
&:= (44 + 4/4) \times (4 \times 44 + 4/4) \\
&:= (55 \times (5 \times (5 \times 5 + 5) - 5)) - 5 - 5 \\
&:= 6 + (((66/6) \times (((6 \times 6/(6+6))^6) - 6)) + 6) \\
&:= 77 + (777/7 + 7777) \\
&:= (8/8 + 8) \times (888 - 88/8 + 8) \\
&:= 9 + ((9 \times (9 \times 99 - 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7966 &:= (1+1) \times (((1+1)^{1+1+1}) - (1+1+111)) \\
&:= 222 + (2 \times 2 \times 22)^2 \\
&:= 3/3 + (3 \times (3 \times ((33 \times 3^3) - (3+3)))) \\
&:= 44 + ((44 \times (4 \times 44 + 4)) + (4+4)/4) \\
&:= 5 + (((5/5 + 5)^5 + 5 \times 5 \times 5) + 55) + 5 \\
&:= ((6+6)/6) \times (6 \times 666 - (6/6 + 6 + 6)) \\
&:= 77 + (7 \times (77 \times (7 + 7) + 7 \times 7)) \\
&:= ((8/8 + 8) \times (888 - ((8+8)/8))) - 8 \\
&:= 9 + (((9 \times (9 \times 99 - 9) + 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7967 &:= ((1+1) \times (((1+1)^{1+1+1}) - (1+111))) - 1 \\
&:= 2/2 + ((2 \times 2 \times 22)^2 + 222) \\
&:= ((33/3 + 3 \times 3)^3) - 33 \\
&:= (4/4 + 4^4) \times (4 \times (4+4) - 4/4) \\
&:= 5 \times 5 + ((555/5 + (5/5 + 5)^5) + 55) \\
&:= 66/6 + (6 \times ((6 \times (6 \times 6 \times 6 + 6)) - 6)) \\
&:= 7/7 + ((7 \times (77 \times (7 + 7) + 7 \times 7)) + 77) \\
&:= ((8/8 + 8) \times (888 - 8/8)) - 8 - 8 \\
&:= 9 + ((9 \times (9 \times 99 - 9) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7968 &:= (1+1) \times (((1+1)^{1+1+1}) - (1+111)) \\
&:= 2 + ((2 \times 2 \times 22)^2 + 222) \\
&:= (3+3) \times ((33/3)^3 - 3) \\
&:= (4+4) \times ((4 \times (4^4 - 4 - 4)) + 4) \\
&:= ((5+5)/5)^5 \times (5 \times 5 \times (5+5) - 5/5) \\
&:= (6+6) \times (666 - ((6+6)/6)) \\
&:= ((7+7)/7)^7 + (7 \times (7 \times 7 + 7 + 777)) \\
&:= (88+8) \times ((88/8 + 8 \times 8) + 8) \\
&:= (9-9/9) \times (999 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7969 &:= ((1+1) \times (((1+1)^{1+1+1}) - 111)) - 1 \\
&:= (2^{22/2+2}) - (222 + 2/2) \\
&:= 3/3 + ((3+3) \times ((33/3)^3 - 3)) \\
&:= 4 + ((44 + 4/4) \times (4 \times 44 + 4/4)) \\
&:= (55 \times (5 \times (5 \times 5 + 5) - 5)) - (5/5 + 5) \\
&:= 6/6 + ((6+6) \times (666 - ((6+6)/6))) \\
&:= ((7+7+7)/7)^7 + (7 \times (777 + 7 \times 7)) \\
&:= 88 \times (8+8) + (88/8 - 8)^8 \\
&:= 9 \times 9 \times 99 - ((9 \times 99 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7970 &:= (1+1) \times (((1+1)^{1+1+1}) - 111) \\
&:= (2^{22/2+2}) - 222 \\
&:= 3 + (((33/3 + 3 \times 3)^3) - 33) \\
&:= (4+4)/4 \times ((4+4)^4 - 444/4) \\
&:= (55 \times (5 \times (5 \times 5 + 5) - 5)) - 5 \\
&:= ((6+6)/6) \times (6 \times 666 - (66/6)) \\
&:= 7 \times 7 + (((77+7)/7 + 77)^{(7+7)/7}) \\
&:= 8/8 + ((88/8 - 8)^8 + 88 \times (8+8)) \\
&:= 9 \times 9 \times 99 + ((9-9 \times 99)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7971 &:= 1 + ((1+1) \times (((1+1)^{1+1+1}) - 111)) \\
&:= 2/2 + ((2^{22/2+2}) - 222) \\
&:= 3 + ((3+3) \times ((33/3)^3 - 3)) \\
&:= 4 + ((4/4 + 4^4) \times (4 \times (4+4) - 4/4)) \\
&:= 5/5 + ((55 \times (5 \times (5 \times 5 + 5) - 5)) - 5) \\
&:= (6^{6-6/6}) + ((6 \times 66 - 6)/(6+6)/6) \\
&:= 7777 + ((7+7) \times (7+7) - ((7+7)/7)) \\
&:= 88 + ((88 \times 88 + 8 \times (8+8)) + (88/8)) \\
&:= 9 \times (9 \times 99 - 9) + (99/(9+9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7972 &:= (1+1) \times (1 + (((1+1)^{1+1+1}) - 111)) \\
&:= 2 + ((2^{22/2+2}) - 222) \\
&:= 3 + (((3+3) \times ((33/3)^3 - 3)) + 3/3) \\
&:= 4 + ((4+4) \times ((4 \times (4^4 - 4 - 4)) + 4)) \\
&:= (5+5)/5 + ((55 \times (5 \times (5 \times 5 + 5) - 5)) - 5) \\
&:= ((6+6)/6) \times (((6-66)/6) + 6 \times 666) \\
&:= 7777 + ((7+7) \times (7+7) - 7/7) \\
&:= ((8/8 + 8) \times 888) - ((88+8)/8 + 8) \\
&:= 999 \times (9-9/9) - (99/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7973 &:= 1 + ((1+1) \times (1 + (((1+1)^{1+1+1}) - 111))) \\
&:= 2 + (((2^{22/2+2}) - 222) + 2/2) \\
&:= ((33/3 + 3 \times 3)^3) - 3^3 \\
&:= 4 + (((44 + 4/4) \times (4 \times 44 + 4/4)) + 4) \\
&:= (55 \times (5 \times (5 \times 5 + 5) - 5)) - (5+5)/5 \\
&:= ((6+6) \times 666) - ((6/6 + 6 + 6) + 6) \\
&:= 7777 + (7+7) \times (7+7) \\
&:= ((8/8 + 8) \times 888) - (88/8 + 8) \\
&:= 999 \times (9-9/9) - (9/9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7974 &:= (1+1) \times (1 + (1 + (((1+1)^{1+1+1}) - 111))) \\
&:= 2 + (((2^{22/2+2}) - 222) + 2) \\
&:= 3 + (((3+3) \times ((33/3)^3 - 3)) + 3) \\
&:= ((4+4)/4 + 4 \times 4) \times (444 - 4/4) \\
&:= (55 \times (5 \times (5 \times 5 + 5) - 5)) - 5/5 \\
&:= ((6+6) \times 666) - 6 - 6 - 6 \\
&:= 7/7 + (7777 + (7+7) \times (7+7)) \\
&:= (8/8 + 8) \times (888 - ((8+8)/8)) \\
&:= 999 \times (9-9/9) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7975 &:= 11 \times (((1+1) \times (11 \times (11 \times (1+1+1)))) - 1) \\
&:= 22/2 \times ((22^2 - 2)/2 + 22^2) \\
&:= 33/3 \times (3^{3+3} - (3/3 + 3)) \\
&:= 4 + (((4/4 + 4^4) \times (4 \times (4+4) - 4/4)) + 4) \\
&:= 55 \times (5 \times (5 \times 5 + 5) - 5) \\
&:= 66/6 \times ((66 \times 66 - 6)/6) \\
&:= 77 + (((7+7)/7)^7 - 7) + 7777 \\
&:= ((8/8 + 8) \times (888 - 8/8)) - 8 \\
&:= ((9-9/9) \times (999 - 9/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7976 &:= 1 + (11 \times (((1+1) \times (11 \times (11 \times (1+1+1)))) - 1)) \\
&:= (22-2)^{2/2+2} - 22 - 2 \\
&:= 3 + (((33/3 + 3 \times 3)^3) - 3^3) \\
&:= (4+4) \times (4 \times (4^4 - 4) - 44/4) \\
&:= 5/5 + (55 \times (5 \times (5 \times 5 + 5) - 5)) \\
&:= (6-66)/6 + (((6+6) \times 666) - 6) \\
&:= 7 + ((7 \times (777 + 7 \times 7)) + ((7+7+7)/7)^7) \\
&:= ((8+8) \times (8 \times 8 \times 8 - 8)) - 88 \\
&:= (9-9/9) \times (999 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7977 &:= (1+1+1) \times (((1+1) \times (11^{1+1+1} - 1)) - 1) \\
&:= (22-2)^{2/2+2} - 22 - 2/2 \\
&:= ((3+3) \times (33/3)^3) - 3 \times 3 \\
&:= 4/4 + ((4+4) \times (4 \times (4^4 - 4) - 44/4)) \\
&:= (5+5)/5 + (55 \times (5 \times (5 \times 5 + 5) - 5)) \\
&:= (6^{6-6/6}) + ((6 \times 66 + 6)/(6+6)/6) \\
&:= 77 \times 77 + (((7+7)/7)^{77/7}) \\
&:= 8 + ((88/8 - 8)^8 + 88 \times (8+8)) \\
&:= 9 + ((9 \times (9 \times 99 - (9+9))) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7978 &:= (1+1) \times (((1+1+1) \times (11^{1+1+1} - 1)) - 1) \\
&:= (22-2)^{2/2+2} - 22 \\
&:= 3 + (33/3 \times (3^{3+3} - (3/3+3))) \\
&:= 4 + (((4+4)/4 + 4 \times 4) \times (444 - 4/4)) \\
&:= 5 + ((55 \times (5 \times (5 \times 5 + 5) - 5)) - ((5+5)/5)) \\
&:= ((6+6)/6) \times (6 \times 666 - (6/6+6)) \\
&:= ((7/7+7+7) \times (7 \times 77 - 7)) - (7+7)/7 \\
&:= (8+8)/8 + (((8+8) \times (8 \times 8 \times 8 - 8)) - 88) \\
&:= 9 \times 9 \times 99 - ((9 \times 9 \times 9 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7979 &:= ((1+1) \times ((1+1+1) \times (11^{1+1+1} - 1))) - 1 \\
&:= 2/2 + ((22-2)^{2/2+2} - 22) \\
&:= 3 + (((33/3+3 \times 3)^3 - 3^3) + 3) \\
&:= 44 + ((4 \times 4^4 \times (4+4)) - (4/4+4^4)) \\
&:= 5 + ((55 \times (5 \times (5 \times 5 + 5) - 5)) - 5/5) \\
&:= ((6+6) \times 666) - (6/6+6+6) \\
&:= ((7/7+7+7) \times (7 \times 77 - 7)) - 7/7 \\
&:= (88 - (8/8+8)) \times (8888/88) \\
&:= 9 \times 9 \times 99 + ((9-9 \times 9 \times 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7980 &:= (1+1) \times ((1+1+1) \times (11^{1+1+1} - 1)) \\
&:= 2 + ((22-2)^{2/2+2} - 22) \\
&:= (3+3) \times ((33/3)^3 - 3/3) \\
&:= 44 + (4 \times ((4+4) \times (4^4 - 4 - 4))) \\
&:= 5 + (55 \times (5 \times (5 \times 5 + 5) - 5)) \\
&:= (6+6) \times (666 - 6/6) \\
&:= (7/7+7+7) \times (7 \times 77 - 7) \\
&:= ((8/8+8) \times 888) - (88+8)/8 \\
&:= 9 \times (9 \times 99 + 9) - (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7981 &:= 1 + ((1+1) \times ((1+1+1) \times (11^{1+1+1} - 1))) \\
&:= (222 \times (2+2+2)^2) - 22/2 \\
&:= ((3^3 - 3) \times 333) - 33/3 \\
&:= 4 \times 4 + ((44+4/4) \times (4 \times 44 + 4/4)) \\
&:= 55555/5 - (5^5 + 5) \\
&:= ((6+6) \times 666) - 66/6 \\
&:= 7/7 + ((7/7+7+7) \times (7 \times 77 - 7)) \\
&:= ((8/8+8) \times 888) - 88/8 \\
&:= 999 \times (9-9/9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7982 &:= (1+1) \times (1 + ((1+1+1) \times (11^{1+1+1} - 1))) \\
&:= 2 + (((22-2)^{2/2+2} - 22) + 2) \\
&:= ((33/3+3 \times 3)^3) - (3 \times (3+3)) \\
&:= 4^4 + ((4 \times (44 \times 44 - 4)) - (4+4)/4) \\
&:= (5 \times 5 + 5/5) \times (5^5 - 55)/(5+5) \\
&:= (6-66)/6 + ((6+6) \times 666) \\
&:= 77 + (7777 + ((7+7)/7)^7) \\
&:= 8 + ((8/8+8) \times (888 - ((8+8)/8))) \\
&:= 999 \times (9-9/9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7983 &:= (1+1+1) \times (((1+1) \times 11^{1+1+1}) - 1) \\
&:= 2 + ((222 \times (2+2+2)^2) - 22/2) \\
&:= ((3+3) \times (33/3)^3) - 3 \\
&:= 4^4 + ((4 \times (44 \times 44 - 4)) - 4/4) \\
&:= ((5+5)/5 \times (5555 - 5/5)) - 5^5 \\
&:= (((6-66) + 6)/6) + ((6+6) \times 666) \\
&:= 7/7 + ((7777 + ((7+7)/7)^7) + 77) \\
&:= (8/8+8) \times (888 - 8/8) \\
&:= 999 \times (9-9/9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7984 &:= (1+1) \times (((1+1+1) \times 11^{1+1+1}) - 1) \\
&:= (22-2)^{2/2+2} - 2^{2+2} \\
&:= 3/3 + (((3+3) \times (33/3)^3) - 3) \\
&:= 4^4 + (4 \times (44 \times 44 - 4)) \\
&:= (5/5+5)^5 + ((5^5 - 5)/(5+5+5)) \\
&:= ((6+6) \times 666) - ((6+6)/6+6) \\
&:= 7 + (((7+7)/7)^{77/7} + 77 \times 77) \\
&:= ((8/8+8) \times 888) - 8 \\
&:= (9-9/9) \times (999 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7985 &:= ((1+1) \times ((1+1+1) \times 11^{1+1+1})) - 1 \\
&:= (22^2 - 2)/2 + (2 \times 2 \times 22)^2 \\
&:= ((3+3) \times (33/3)^3) - 3/3 \\
&:= 4/4 + ((4 \times (44 \times 44 - 4)) + 4^4) \\
&:= 5 + ((55 \times (5 \times (5 \times 5 + 5) - 5)) + 5) \\
&:= ((6+6) \times 666) - 6/6 - 6 \\
&:= (777/7 \times ((7+7)/7 - 7) + 77) - 7 \\
&:= 8/8 + (((8/8+8) \times 888) - 8) \\
&:= 9 + ((9-9/9) \times (999 - (9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7986 &:= (1+1) \times ((1+1+1) \times 11^{1+1+1}) \\
&:= 22 \times (((22 - (2/2+2))^2) + 2) \\
&:= (3+3) \times (33/3)^3 \\
&:= ((4+4)/4+4) \times ((44/4)^{4-4/4}) \\
&:= 55555/5 - 5^5 \\
&:= ((6+6) \times 666) - 6 \\
&:= (7-7/7) \times ((77/7)^{(7+7+7)/7}) \\
&:= (8+8)/8 + (((8/8+8) \times 888) - 8) \\
&:= 99/9 \times (9 \times 9 \times 9 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7987 &:= 1 + ((1+1) \times ((1+1+1) \times 11^{1+1+1})) \\
&:= (22^2 + 2)/2 + (2 \times 2 \times 22)^2 \\
&:= 3/3 + ((3+3) \times (33/3)^3) \\
&:= 4 + (((4 \times (44 \times 44 - 4)) - 4/4) + 4^4) \\
&:= 5/5 + (55555/5 - 5^5) \\
&:= 6/6 + (((6+6) \times 666) - 6) \\
&:= 7 + ((7/7+7+7) \times (7 \times 77 - 7)) \\
&:= 88/8 + (((8+8) \times (8 \times 8 \times 8 - 8)) - 88) \\
&:= 9 + (9 \times 9 \times 99 - ((9 \times 9 \times 9 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7988 &:= (1+1) \times (1 + ((1+1+1) \times 11^{1+1+1})) \\
&:= 2 \times ((222 \times (2^{2+2} + 2)) - 2) \\
&:= 3 + (((3+3) \times (33/3)^3) - 3/3) \\
&:= 4 + ((4 \times (44 \times 44 - 4)) + 4^4) \\
&:= (5+5)/5 + (55555/5 - 5^5) \\
&:= (6+6)/6 + (((6+6) \times 666) - 6) \\
&:= 7 + (((7/7+7+7) \times (7 \times 77 - 7)) + 7/7) \\
&:= ((8/8+8) \times 888) - 8 \times 8/(8+8) \\
&:= 9 \times 9 \times 99 - (((99+99)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7989 &:= (((1+1) \times (11-1))^{1+1+1}) - 11 \\
&:= (22-2)^{2/2+2} - 22/2 \\
&:= 3 + ((3+3) \times (33/3)^3) \\
&:= ((4 \times 4 + 4)^{4-4/4}) - 44/4 \\
&:= ((5 \times 5 - 5)^{5-(5+5)/5}) - 55/5 \\
&:= ((6+6) \times 666) - 6 \times 6/(6+6) \\
&:= 7 + ((7777 + ((7+7)/7)^7) + 77) \\
&:= 8 + (((8/8+8) \times 888) - (88/8)) \\
&:= 9 \times (9 \times 99 + 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7990 &:= 1 + (((1+1) \times (11-1))^{1+1+1}) - 11 \\
&:= (222 \times (2+2+2)^2) - 2 \\
&:= 3 + (((3+3) \times (33/3)^3) + 3/3) \\
&:= (4-44)/4 + ((4 \times 4 + 4)^{4-4/4}) \\
&:= ((5 \times 5 - 5)^{5-(5+5)/5}) - 5 - 5 \\
&:= ((6+6) \times 666) - (6+6)/6 \\
&:= (77 \times (777/7 - 7)) - (77/7 + 7) \\
&:= ((8/8+8) \times 888) - (8+8)/8 \\
&:= 9 \times 9 \times 99 - (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7991 &:= (111 \times ((1+11)^{1+1}/(1+1))) - 1 \\
&:= (222 \times (2+2+2)^2) - 2/2 \\
&:= ((33/3+3 \times 3)^3) - 3 \times 3 \\
&:= ((4 \times 4 + 4)^{4-4/4}) - (4/4+4+4) \\
&:= 5 + (55555/5 - 5^5) \\
&:= ((6+6) \times 666) - 6/6 \\
&:= 77/7 + ((7/7+7+7) \times (7 \times 77 - 7)) \\
&:= ((8/8+8) \times 888) - 8/8 \\
&:= 999 \times (9-9/9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7992 &:= 111 \times ((1+11)^{1+1}/(1+1)) \\
&:= 222 \times (2+2+2)^2 \\
&:= (3^3 - 3) \times 333 \\
&:= 444 \times ((4+4)/4 + 4 \times 4) \\
&:= 5 + ((55555/5 - 5^5) + 5/5) \\
&:= (6+6) \times 666 \\
&:= 777/7 \times (((7+7)/7 - 7) + 77) \\
&:= (8/8+8) \times 888 \\
&:= 999 \times (9-9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7993 &:= 1 + (111 \times ((1+11)^{1+1}/(1+1))) \\
&:= 2/2 + (222 \times (2+2+2)^2) \\
&:= 3/3 + ((3^3 - 3) \times 333) \\
&:= 4 + (((4 \times 4 + 4)^{4-4/4}) - 44/4) \\
&:= ((5 \times 5 - 5)^{5-(5+5)/5}) - ((5+5)/5 + 5) \\
&:= 6/6 + ((6+6) \times 666) \\
&:= (((7-7/7+7)+7)^{(7+7+7)/7}) - 7 \\
&:= 8/8 + ((8/8+8) \times 888) \\
&:= 9/9 + 999 \times (9-9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7994 &:= 1 + (1 + (111 \times ((1+11)^{1+1}/(1+1)))) \\
&:= 2 + (222 \times (2+2+2)^2) \\
&:= ((33/3 + 3 \times 3)^3) - 3 - 3 \\
&:= ((4 \times 4 + 4)^{4-4/4}) - ((4+4)/4 + 4) \\
&:= ((5 \times 5 - 5)^{5-(5+5)/5}) - (5/5 + 5) \\
&:= (6+6)/6 + ((6+6) \times 666) \\
&:= (77 \times (777/7 - 7)) - (7+7) \\
&:= (8+8)/8 + ((8/8+8) \times 888) \\
&:= (9+9)/9 + 999 \times (9-9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7995 &:= (1+1+1) \times (1 + ((1+1) \times 1 + 11^{1+1+1})) \\
&:= 2 + ((222 \times (2+2+2)^2) + 2/2) \\
&:= 3 + ((3^3 - 3) \times 333) \\
&:= ((4 \times 4 + 4)^{4-4/4}) - 4/4 - 4 \\
&:= ((5 \times 5 - 5)^{5-(5+5)/5}) - 5 \\
&:= (6 \times 6 / (6+6)) + ((6+6) \times 666) \\
&:= (7/7 + 7 + 7) \times ((7 \times 77 - 7) + 7/7) \\
&:= 88/8 + (((8/8+8) \times 888) - 8) \\
&:= ((9+9+9)/9) + 999 \times (9-9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7996 &:= (((1+1) \times (11-1))^{1+1+1}) - 1 - 1 - 1 - 1 \\
&:= (22-2)^{2/2+2} - 2 - 2 \\
&:= 3 + (((3^3 - 3) \times 333) + 3/3) \\
&:= ((4 \times 4 + 4)^{4-4/4}) - 4 \\
&:= 5 \times 55 + ((5/5 + 5)^5 - 55) \\
&:= 6 + (((6+6) \times 666) - ((6+6)/6)) \\
&:= (((7+7)/7)^{7-7/7+7}) - (7+7) \times (7+7) \\
&:= 8 \times 8 / (8+8) + ((8/8+8) \times 888) \\
&:= 9 \times 9 \times 99 - (99+99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7997 &:= 11 \times ((11-1-1)^{1+1+1} - (1+1)) \\
&:= (22-2)^{2/2+2} - 2/2 - 2 \\
&:= ((33/3 + 3 \times 3)^3) - 3 \\
&:= 4/4 + (((4 \times 4 + 4)^{4-4/4}) - 4) \\
&:= 5/5 + (((5/5 + 5)^5 - 55) + 5 \times 55) \\
&:= 6 + (((6+6) \times 666) - 6/6) \\
&:= 77/7 \times (777 - (7/7 + 7 \times 7)) \\
&:= 8 + (((8/8+8) \times 888) - (88/8)) + 8 \\
&:= 99/9 \times (9 \times 9 \times 9 - (9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7998 &:= (((1+1) \times (11-1))^{1+1+1}) - 1 - 1 \\
&:= (22-2)^{2/2+2} - 2 \\
&:= 3 + (((3^3 - 3) \times 333) + 3) \\
&:= ((4 \times 4 + 4)^{4-4/4}) - (4+4)/4 \\
&:= ((5 \times 5 - 5)^{5-(5+5)/5}) - (5+5)/5 \\
&:= 6 + ((6+6) \times 666) \\
&:= 77 + (((77+7)/7 + 77)^{(7+7)/7}) \\
&:= 8 + (((8/8+8) \times 888) - ((8+8)/8)) \\
&:= 9 \times 9 \times 99 - ((99+9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 7999 &:= (((1+1) \times (11-1))^{1+1+1}) - 1 \\
&:= (22-2)^{2/2+2} - 2/2 \\
&:= ((33/3 + 3 \times 3)^3) - 3/3 \\
&:= ((4 \times 4 + 4)^{4-4/4}) - 4/4 \\
&:= ((5 \times 5 - 5)^{5-(5+5)/5}) - 5/5 \\
&:= 6 + (((6+6) \times 666) + 6/6) \\
&:= 7 + (777/7 \times (((7+7)/7 - 7) + 77)) \\
&:= 8 + (((8/8+8) \times 888) - 8/8) \\
&:= 9 \times 9 \times 99 - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8000 &:= ((1+1) \times (11-1))^{1+1+1} \\
&:= (22-2)^{2/2+2} \\
&:= (33/3 + 3 \times 3)^3 \\
&:= (4 \times 4 + 4)^{4-4/4} \\
&:= (5 \times 5 - 5)^{5-(5+5)/5} \\
&:= 6 + (((6+6) \times 666) + ((6+6)/6)) \\
&:= ((7-7/7+7)+7)^{(7+7+7)/7} \\
&:= 8 + ((8/8+8) \times 888) \\
&:= (9-9/9) \times (999+9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8001 &:= 1 + (((1+1) \times (11-1))^{1+1+1}) \\
&:= 2/2 + (22-2)^{2/2+2} \\
&:= 3 \times ((3 \times ((33 \times 3^3) - 3)) + 3) \\
&:= 4/4 + ((4 \times 4 + 4)^{4-4/4}) \\
&:= 5/5 + ((5 \times 5 - 5)^{5-(5+5)/5}) \\
&:= 6 + (((6+6) \times 666) + (6 \times 6 / (6+6))) \\
&:= (77 \times (777/7 - 7)) - 7 \\
&:= (8/8 + 8) \times (888 + 8/8) \\
&:= 9 \times 9 \times 99 - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8002 &:= 1 + (1 + (((1+1) \times (11-1))^{1+1+1})) \\
&:= 2 + (22-2)^{2/2+2} \\
&:= 3 + (((33/3 + 3 \times 3)^3) - 3/3) \\
&:= (4+4)/4 + ((4 \times 4 + 4)^{4-4/4}) \\
&:= (5+5)/5 + ((5 \times 5 - 5)^{5-(5+5)/5}) \\
&:= ((66-6)/6) + ((6+6) \times 666) \\
&:= 7/7 + ((77 \times (777/7 - 7)) - 7) \\
&:= 8 + (((8/8+8) \times 888) + ((8+8)/8)) \\
&:= 9/9 + (9 \times 9 \times 99 - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8003 &:= 1 + (1 + (1 + (((1+1) \times (11-1))^{1+1+1}))) \\
&:= 2 + ((22-2)^{2/2+2} + 2/2) \\
&:= 3 + ((33/3 + 3 \times 3)^3) \\
&:= 4 + (((4 \times 4 + 4)^{4-4/4}) - 4/4) \\
&:= 5 + (((5 \times 5 - 5)^{5-(5+5)/5}) - ((5+5)/5)) \\
&:= 66/6 + ((6+6) \times 666) \\
&:= (7+7)/7 + ((77 \times (777/7 - 7)) - 7) \\
&:= 88/8 + ((8/8+8) \times 888) \\
&:= (9+9)/9 + (9 \times 9 \times 99 - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8004 &:= ((111-1)^{1+1}) - ((1+1)^{1+1+1}) \\
&:= 2 + ((22-2)^{2/2+2} + 2) \\
&:= (3+3) \times ((33/3)^3 + 3) \\
&:= 4 + ((4 \times 4 + 4)^{4-4/4}) \\
&:= 5 + (((5 \times 5 - 5)^{5-(5+5)/5}) - 5/5) \\
&:= 6 + (((6+6) \times 666) + 6) \\
&:= 7 + (77/7 \times (777 - (7/7 + 7 \times 7))) \\
&:= ((88+8)/8) + ((8/8+8) \times 888) \\
&:= 9 \times 9 \times 99 + (((9+9+9)/9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8005 &:= 1 + (((111-1)^{1+1}) - ((1+1)^{1+1+1})) \\
&:= 2 + (((22-2)^{2/2+2} + 2/2) + 2) \\
&:= 3/3 + ((3+3) \times ((33/3)^3 + 3)) \\
&:= 4 + (((4 \times 4 + 4)^{4-4/4}) + 4/4) \\
&:= 5 + ((5 \times 5 - 5)^{5-(5+5)/5}) \\
&:= 6 + (((6+6) \times 666) + 6/6 + 6) \\
&:= (77 \times (777/7 - 7)) - (7+7+7)/7 \\
&:= (88+8+8)/8 + ((8/8+8) \times 888) \\
&:= 9 \times 9 \times 99 + (((9-99)/(9+9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8006 &:= (11 \times ((11-1-1)^{1+1+1} - 1)) - 1 - 1 \\
&:= 2 + (((22-2)^{2/2+2} + 2) + 2) \\
&:= 3 + (((33/3 + 3 \times 3)^3) + 3) \\
&:= 4 + (((4 \times 4 + 4)^{4-4/4}) + (4+4)/4) \\
&:= 5 + (((5 \times 5 - 5)^{5-(5+5)/5}) + 5/5) \\
&:= 6 + (((6+6) \times 666) + ((6+6)/6)) + 6 \\
&:= (77 \times (777/7 - 7)) - (7+7)/7 \\
&:= 8 + (((8/8+8) \times 888) - ((8+8)/8)) + 8 \\
&:= 9 \times 9 \times 99 - (99+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8007 &:= (11 \times ((11-1-1)^{1+1+1} - 1)) - 1 \\
&:= 2 + (((22-2)^{2/2+2} + 2/2) + 2) + 2 \\
&:= 3 + ((3+3) \times ((33/3)^3 + 3)) \\
&:= 4 + (((4 \times 4 + 4)^{4-4/4}) - 4/4) + 4 \\
&:= 5 + (((5 \times 5 - 5)^{5-(5+5)/5}) + ((5+5)/5)) \\
&:= ((66/6) \times ((6 \times 6 / (6+6))^6)) - 6 - 6 \\
&:= (77 \times (777/7 - 7)) - 7/7 \\
&:= 8 + (((8/8+8) \times 888) - 8/8) + 8 \\
&:= 9 \times 9 \times 99 - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8008 &:= 11 \times ((11 - 1 - 1)^{1+1+1} - 1) \\
&:= 2 \times (2 + 2) + (22 - 2)^{2/2+2} \\
&:= 33/3 \times (3^{3+3} - 3/3) \\
&:= 4 + (((4 \times 4 + 4)^{4-4/4}) + 4) \\
&:= (5 \times 5 + 5/5) \times ((5^5 + 5)/(5 + 5) - 5) \\
&:= 6 + (((6 + 6) \times 666) + ((66 - 6)/6)) \\
&:= 77 \times (777/7 - 7) \\
&:= 8 + (((8/8 + 8) \times 888) + 8) \\
&:= 9 \times 9 \times 99 - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8009 &:= 1 + (11 \times ((11 - 1 - 1)^{1+1+1} - 1)) \\
&:= 22/2 + ((22 - 2)^{2/2+2} - 2) \\
&:= 3 \times 3 + ((33/3 + 3 \times 3^3) \\
&:= 4 + (((4 \times 4 + 4)^{4-4/4}) + 4/4 + 4) \\
&:= 5 + (((5 \times 5 - 5)^{5-(5+5)/5}) - 5/5) + 5) \\
&:= 6 + (((6 + 6) \times 666) + (66/6)) \\
&:= 7/7 + (77 \times (777/7 - 7)) \\
&:= 8 + ((8/8 + 8) \times (888 + 8/8)) \\
&:= 9 \times 9 \times 99 - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8010 &:= 11 + (((1 + 1) \times (11 - 1))^{1+1+1} - 1) \\
&:= 2 + ((22 - 2)^{2/2+2} + 2 \times (2 + 2)) \\
&:= 3 \times ((3 \times (33 \times 3^3)) - 3) \\
&:= (44 - 4)/4 + ((4 \times 4 + 4)^{4-4/4}) \\
&:= 5 + (((5 \times 5 - 5)^{5-(5+5)/5}) + 5) \\
&:= 6 + (((6 + 6) \times 666) + 6) + 6) \\
&:= (7 + 7)/7 + (77 \times (777/7 - 7)) \\
&:= (8/8 + 8) \times (888 + ((8 + 8)/8)) \\
&:= 9 \times 9 \times 99 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8011 &:= 11 + (((1 + 1) \times (11 - 1))^{1+1+1}) \\
&:= 22/2 + (22 - 2)^{2/2+2} \\
&:= 3 + (33/3 \times (3^{3+3} - 3/3)) \\
&:= 44/4 + ((4 \times 4 + 4)^{4-4/4}) \\
&:= 5 \times 5 + (55555/5 - 5^5) \\
&:= 6 + (((6 + 6) \times 666) + 6/6 + 6) + 6) \\
&:= (7 + 7 + 7)/7 + (77 \times (777/7 - 7)) \\
&:= 8 + (((8/8 + 8) \times 888) + (88/8)) \\
&:= 9/9 + (9 \times 9 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8012 &:= 1 + (11 + (((1 + 1) \times (11 - 1))^{1+1+1})) \\
&:= 2 \times (2 \times ((2 \times 22 + 2/2)^2 - 22)) \\
&:= 3 + (((33/3 + 3 \times 3^3) + 3 \times 3) \\
&:= (4 \times (4^4 \times (4 + 4) - 44)) - 4) \\
&:= 5 \times 5 \times 5 + (555/5 + (5/5 + 5)^5) \\
&:= 6 + (((6 + 6) \times 666) + ((6 + 6)/6) + 6) + 6) \\
&:= 77/7 + ((77 \times (777/7 - 7)) - 7) \\
&:= (((8 + 8)/8 + 88)^{(8+8)/8}) - 88 \\
&:= (9 + 9)/9 + (9 \times 9 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8013 &:= 1 + (1 + (11 + (((1 + 1) \times (11 - 1))^{1+1+1}))) \\
&:= 2 + ((22 - 2)^{2/2+2} + 22/2) \\
&:= 3 + (3 \times ((3 \times (33 \times 3^3)) - 3)) \\
&:= 4/4 + ((4 \times (4^4 \times (4 + 4) - 44)) - 4) \\
&:= 5 + ((5 \times 5 + 5/5) \times ((5^5 + 5)/(5 + 5) - 5)) \\
&:= ((66/6) \times ((6 \times 6/(6 + 6))^6)) - 6 \\
&:= 7 + ((77 \times (777/7 - 7)) - ((7 + 7)/7)) \\
&:= 8 + (((8/8 + 8) \times 888) + (88 + 8 + 8)/8) \\
&:= 9 \times 9 \times 99 + (((9 + 9 + 9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8014 &:= 1 + (1 + (1 + (11 + (((1 + 1) \times (11 - 1))^{1+1+1})))) \\
&:= 22 + (222 \times (2 + 2 + 2)^2) \\
&:= 3 + ((33/3 \times (3^{3+3} - 3/3)) + 3) \\
&:= (4 \times (4^4 \times (4 + 4) - 44)) - (4 + 4)/4 \\
&:= (5/5 + 5)^5 + (((5 - (5 + 5)/5)^5) - 5) \\
&:= ((6 + 6)/6) \times (6 \times 666 + (66/6)) \\
&:= 7 + ((77 \times (777/7 - 7)) - 7/7) \\
&:= ((8 + 8)/8) \times (8 \times 8 \times 8 - (8/8 + 88)) \\
&:= 9 \times 9 \times 99 + ((9 - 99)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8015 &:= 11 + (((111 - 1)^{1+1}) - ((1 + 1)^{1+1+1})) \\
&:= 2 + (((22 - 2)^{2/2+2} + 22/2) + 2) \\
&:= (3 \times (3 \times (33 \times 3^3))) - (3/3 + 3) \\
&:= (4 \times (4^4 \times (4 + 4) - 44)) - 4/4 \\
&:= 5 + (((5 \times 5 - 5)^{5-(5+5)/5}) + 5) + 5) \\
&:= 6 + (((6 + 6) \times 666) + (66/6) + 6) \\
&:= 7 + (77 \times (777/7 - 7)) \\
&:= ((8 + 8) \times (8 \times 8 \times 8 - 88/8)) - 8/8 \\
&:= 9 \times 9 \times 99 + ((9 - 9 \times 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8016 &:= (1 + 1) \times ((1 + 11) \times (1 + (1 + 1 + 1) \times 111)) \\
&:= 2 \times (2 \times (2^{22/2} - 2 \times 22)) \\
&:= (3 \times (3 \times (33 \times 3^3))) - 3 \\
&:= 4 \times (4^4 \times (4 + 4) - 44) \\
&:= 5 \times 5 \times (5 + 5) + ((5/5 + 5)^5 - (5 + 5)) \\
&:= (6 + 6) \times (666 + (6 + 6)/6) \\
&:= 7 + ((77 \times (777/7 - 7)) + 7/7) \\
&:= (8 + 8) \times (8 \times 8 \times 8 - 88/8) \\
&:= 9 \times 9 \times 99 - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8017 &:= (11 \times (11 - 1 - 1)^{1+1+1}) - 1 - 1 \\
&:= (22/2 \times ((2/2 + 2)^{2+2+2})) - 2 \\
&:= 3/3 + ((3 \times (3 \times (33 \times 3^3))) - 3) \\
&:= 4/4 + (4 \times (4^4 \times (4 + 4) - 44)) \\
&:= 5 + ((555/5 + (5/5 + 5)^5) + 5 \times 5 \times 5) \\
&:= 6 \times 6 + (((6 + 6) \times 666) - (66/6)) \\
&:= 7 + ((77 \times (777/7 - 7)) + ((7 + 7)/7)) \\
&:= 8 + (((8/8 + 8) \times (888 + 8/8)) + 8) \\
&:= 9 \times 9 \times 99 - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8018 &:= (11 \times (11 - 1 - 1)^{1+1+1}) - 1 \\
&:= 2 + ((22 - 2)^{2/2+2} + 2^{2+2}) \\
&:= (3 \times (3 \times (33 \times 3^3))) - 3/3 \\
&:= (4 + 4)/4 + (4 \times (4^4 \times (4 + 4) - 44)) \\
&:= (5/5 + 5)^5 + (((5 - (5 + 5)/5)^5) - 5/5) \\
&:= ((66/6) \times ((6 \times 6/(6 + 6))^6)) - 6/6 \\
&:= ((77 - 7)/7) + (77 \times (777/7 - 7)) \\
&:= 8 + ((8/8 + 8) \times (888 + (8 + 8)/8)) \\
&:= 9 \times 9 \times 99 - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8019 &:= 11 \times (11 - 1 - 1)^{1+1+1} \\
&:= 22/2 \times ((2/2 + 2)^{2+2+2}) \\
&:= 3 \times (3 \times (33 \times 3^3)) \\
&:= 4 + ((4 \times (4^4 \times (4 + 4) - 44)) - 4/4) \\
&:= (5/5 + 5)^5 + (((5 - (5 + 5)/5)^5) \\
&:= 66/6 \times ((6 \times 6/(6 + 6))^6) \\
&:= 77/7 + (77 \times (777/7 - 7)) \\
&:= 88/8 \times ((8/8 + 8)^{88/8-8}) \\
&:= 9 \times 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8020 &:= 1 + (11 \times (11 - 1 - 1)^{1+1+1}) \\
&:= 22 + ((22 - 2)^{2/2+2} - 2) \\
&:= 3/3 + (3 \times (3 \times (33 \times 3^3))) \\
&:= 4 + (4 \times (4^4 \times (4 + 4) - 44)) \\
&:= 5 \times (((5 - 5/5)^5 + 555) + 5 \times 5) \\
&:= 6/6 + (((66/6) \times ((6 \times 6/(6 + 6))^6)) \\
&:= (77 + 7)/7 + (77 \times (777/7 - 7)) \\
&:= 8 + (((8 + 8)/8 + 88)^{(8+8)/8}) - 88) \\
&:= 9/9 + 9 \times 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8021 &:= 1 + (1 + (11 \times (11 - 1 - 1)^{1+1+1})) \\
&:= 2 + (22/2 \times ((2/2 + 2)^{2+2+2})) \\
&:= 3 + ((3 \times (3 \times (33 \times 3^3))) - 3/3) \\
&:= 4 + ((4 \times (4^4 \times (4 + 4) - 44)) + 4/4) \\
&:= 5 \times 5 \times (5 + 5) + ((5/5 + 5)^5 - 5) \\
&:= 6 \times 6 + (((6 + 6) \times 666) - (6/6 + 6)) \\
&:= 7 + (((77 \times (777/7 - 7)) - 7/7) + 7) \\
&:= 8 \times (8 + 8) + ((8/8 + 8) \times (888 - 88/8)) \\
&:= (9 + 9)/9 + 9 \times 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8022 &:= 1 + (1 + (1 + (11 \times (11 - 1 - 1)^{1+1+1}))) \\
&:= 22 + (22 - 2)^{2/2+2} \\
&:= 3 + (3 \times (3 \times (33 \times 3^3))) \\
&:= 4 + ((4 \times (4^4 \times (4 + 4) - 44)) + (4 + 4)/4) \\
&:= 5/5 + (((5/5 + 5)^5 - 5) + 5 \times 5 \times (5 + 5)) \\
&:= 6 \times 6 + (((6 + 6) \times 666) - 6) \\
&:= 7 + ((77 \times (777/7 - 7)) + 7) \\
&:= (((8/8 + 8 \times 8) + 8) \times (888 - 8)/8) - 8 \\
&:= 9 \times 9 \times 99 + ((9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8023 &:= ((1+1)^{1+1+11}) - (1+1+11)^{1+1} \\
&:= 22 + ((22-2)^{2/2+2} + 2/2) \\
&:= 3 + ((3 \times (3 \times (33 \times 3^3))) + 3/3) \\
&:= 4 + (((4 \times (4^4 \times (4+4) - 44)) - 4/4) + 4) \\
&:= 5 + (((5 - (5+5)/5)^5) - 5/5) + (5/5 + 5)^5 \\
&:= 6 \times 6 + (((6+6) \times 666) - 6) + 6/6 \\
&:= 7 + (((77 \times (777/7 - 7)) + 7/7) + 7) \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 - 88/8)) - 8/8) \\
&:= 9 \times 9 \times 99 + ((9 \times 9 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8024 &:= 1 + (((1+1)^{1+1+11}) - (1+1+11)^{1+1}) \\
&:= 2 + ((22-2)^{2/2+2} + 22) \\
&:= 3^3 + (((33/3 + 3 \times 3^3) - 3) \\
&:= 4 + ((4 \times (4^4 \times (4+4) - 44)) + 4) \\
&:= 5 + (((5 - (5+5)/5)^5) + (5/5 + 5)^5) \\
&:= 6 + (((66/6) \times ((6 \times 6/(6+6))^6)) - 6/6) \\
&:= (777/7 + 7) \times (77 - ((7+7)/7 + 7)) \\
&:= 8 + ((8+8) \times (8 \times 8 \times 8 - 88/8)) \\
&:= 9 \times 9 \times 99 + ((9 \times 9 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8025 &:= (1+1+1) \times (11 + (1+1) \times (1+11^{1+1+1})) \\
&:= 2 + (((22-2)^{2/2+2} + 2/2) + 22) \\
&:= 3 + ((3 \times (3 \times (33 \times 3^3))) + 3) \\
&:= (44 + 4^4)/4 \times (444/4 - 4) \\
&:= 5 \times (5 \times ((5+5) \times ((5+5)/5)^5) + 5) \\
&:= 6 + ((66/6) \times ((6 \times 6/(6+6))^6)) \\
&:= (7/7 + 7 + 7) \times ((7 \times 77 - (77/7)) + 7) \\
&:= 8 + (((8/8 + 8) \times (888 + 8/8)) + 8) + 8) \\
&:= 9 + (9 \times 9 \times 99 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8026 &:= 1 + (1+1+1) \times (11 + (1+1) \times (1+11^{1+1+1})) \\
&:= 2 + (((22-2)^{2/2+2} + 22) + 2) \\
&:= 3 + (((3 \times (3 \times (33 \times 3^3))) + 3/3) + 3) \\
&:= (44 - 4)/4 + (4 \times (4^4 \times (4+4) - 44)) \\
&:= 5 \times 5 \times (5+5) + (5/5 + 5)^5 \\
&:= 6 \times 6 + (((6+6) \times 666) - ((6+6)/6)) \\
&:= 7 + ((77 \times (777/7 - 7)) + (77/7)) \\
&:= 8 + (((8/8 + 8) \times (888 + ((8+8)/8))) + 8) \\
&:= 9 + (9 \times 9 \times 99 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8027 &:= (11 \times (1 + (11 - 1 - 1)^{1+1+1})) - 1 - 1 - 1 \\
&:= ((2^2+2) \times (2 \times 222 + 2)) - 2/2 \\
&:= 3^3 + ((33/3 + 3 \times 3^3) \\
&:= 44/4 + (4 \times (4^4 \times (4+4) - 44)) \\
&:= 5/5 + (5 \times 5 \times (5+5) + (5/5 + 5)^5) \\
&:= 6 \times 6 + (((6+6) \times 666) - 6/6) \\
&:= ((7/7 + 77) \times ((777 - 7)/7 - 7)) - 7 \\
&:= 8 + (88/8 \times ((8/8 + 8)^{88/8-8})) \\
&:= 9 + (9 \times 9 \times 99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8028 &:= (1+1+1) \times ((1+11) \times (1 + (1+1) \times 111)) \\
&:= (2^{2+2} + 2) \times (2 \times 222 + 2) \\
&:= 3 \times ((3 \times (33 \times 3^3)) + 3) \\
&:= ((4+4) \times (4 \times (4^4 - 4) - 4)) - 4 \\
&:= (5+5)/5 + (5 \times 5 \times (5+5) + (5/5 + 5)^5) \\
&:= 6 \times ((6 \times (6 \times 6 \times 6 + 6)) + 6) \\
&:= (7 - 7/7) \times (((77/7)^{7+7+7/7}) + 7) \\
&:= (8/8 + 8) \times (8 \times 8/(8+8) + 888) \\
&:= 9 + 9 \times 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8029 &:= (11 \times (1 + (11 - 1 - 1)^{1+1+1})) - 1 \\
&:= 2/2 + ((2^2+2) \times (2 \times 222 + 2)) \\
&:= 3/3 + (3 \times ((3 \times (33 \times 3^3)) + 3)) \\
&:= 4/4 + (((4+4) \times (4 \times (4^4 - 4) - 4)) - 4) \\
&:= 5 + (((5 - (5+5)/5)^5) + (5/5 + 5)^5) + 5) \\
&:= 6 \times 6 + (((6+6) \times 666) + 6/6) \\
&:= (77 \times (7 \times (7+7) + 7)) - (7 \times 7 + 7) \\
&:= (8 \times (8 \times 8 \times (8+8) - 8)) - (88/8 + 88) \\
&:= 9 + (9 \times 9 \times 99 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8030 &:= 11 \times (1 + (11 - 1 - 1)^{1+1+1}) \\
&:= 2 + ((2^2+2) \times (2 \times 222 + 2)) \\
&:= 33/3 \times (3^{3+3} + 3/3) \\
&:= (4+4)/4 \times ((4+4)^4 - (4-4/4)^4) \\
&:= 55 + (55 \times (5 \times (5 \times 5 + 5) - 5)) \\
&:= 6 \times 6 + (((6+6) \times 666) + ((6+6)/6)) \\
&:= 7/7 + ((77 \times (7 \times (7+7) + 7)) - (7 \times 7 + 7)) \\
&:= ((8/8 + 8 \times 8) + 8) \times (888 - 8)/8 \\
&:= 99/9 + 9 \times 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8031 &:= 1 + (11 \times (1 + (11 - 1 - 1)^{1+1+1})) \\
&:= (2 \times 2 \times 22)^2 + (((22 + 2)^2) - 2)/2) \\
&:= 3 + (3 \times ((3 \times (33 \times 3^3)) + 3)) \\
&:= ((4+4) \times (4 \times (4^4 - 4) - 4)) - 4/4 \\
&:= 5 + (5 \times 5 \times (5+5) + (5/5 + 5)^5) \\
&:= 6 + (((66/6) \times ((6 \times 6/(6+6))^6)) + 6) \\
&:= 7 + ((777/7 + 7) \times (77 - ((7+7)/7 + 7))) \\
&:= 888/8 + (88 \times ((8+8)/8 + 88)) \\
&:= 9 \times 9 \times 99 + (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8032 &:= 1 + (1 + (11 \times (1 + (11 - 1 - 1)^{1+1+1}))) \\
&:= 2 \times (2 \times (2^{2/2} + (2 \times (2 - 22)))) \\
&:= 3 + ((3 \times ((3 \times (33 \times 3^3)) + 3)) + 3/3) \\
&:= (4+4) \times (4 \times (4^4 - 4) - 4) \\
&:= (5/5 + 5)^5 + ((5 - 5/5)^{5-5/5}) \\
&:= 6 + (((6+6) \times 666) - ((6+6)/6)) + 6 \times 6) \\
&:= 7 + ((7/7 + 7 + 7) \times ((7 \times 77 - (77/7)) + 7)) \\
&:= (8+8) \times ((8 - 88)/8 + 8 \times 8 \times 8) \\
&:= 9 \times 9 \times 99 + ((99 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8033 &:= 1 + (1 + (1 + (11 \times (1 + (11 - 1 - 1)^{1+1+1})))) \\
&:= 22 + ((22-2)^{2/2+2} + 22/2) \\
&:= 33 + ((33/3 + 3 \times 3^3) \\
&:= 4/4 + ((4+4) \times (4 \times (4^4 - 4) - 4)) \\
&:= (5/5 + 5)^5 + ((5^5 - 5)/(5+5) - 55) \\
&:= 6 + (((6+6) \times 666) - 6/6) + 6 \times 6) \\
&:= 7777 + (((7+7)/7)^{7+7/7}) \\
&:= 8/8 + ((8+8) \times ((8 - 88)/8 + 8 \times 8 \times 8)) \\
&:= 9 + (((9 \times 9 + 9)/(9+9)) + 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8034 &:= 1 + (1 + (1 + (1 + (11 \times (1 + (11 - 1 - 1)^{1+1+1})))))) \\
&:= ((2^2+2) - 2) \times (((22 + 2)^2) - 2) - 2 \\
&:= 3 + ((3 \times ((3 \times (33 \times 3^3)) + 3)) + 3) \\
&:= (4+4)/4 + ((4+4) \times (4 \times (4^4 - 4) - 4)) \\
&:= (5/5 + 5) \times (5 \times (5 \times 55 - 5) - (55/5)) \\
&:= 6 + (((6+6) \times 666) + 6 \times 6) \\
&:= (7/7 + 77) \times ((777 - 7)/7 - 7) \\
&:= (888/8 - 8) \times ((8 - 88)/8 + 88) \\
&:= 9 + ((9 \times 9 \times 99 - ((9+9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8035 &:= ((1+1)^{1+1+11}) - (1 + ((1+11) \times (1+1+11))) \\
&:= ((2^2+2) - 2) \times (((22 + 2)^2) - 2) - 2/2 \\
&:= 3^3 + (33/3 \times (3^{3+3} - 3/3)) \\
&:= 4 + (((4+4) \times (4 \times (4^4 - 4) - 4)) - 4/4) \\
&:= 5 + ((55 \times (5 \times (5 \times 5 + 5) - 5)) + 55) \\
&:= 6 + (((6+6) \times 666) + 6 \times 6) + 6/6) \\
&:= (77 \times (7 \times (7+7) + 7)) - (7/7 + 7 \times 7) \\
&:= 8 + ((88/8 \times ((8/8 + 8)^{88/8-8})) + 8) \\
&:= 9 + ((9 \times 9 \times 99 - ((9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8036 &:= ((1+1)^{1+1+11}) - ((1+11) \times (1+1+11)) \\
&:= (2^2+2) \times (((22 + 2)^2) - 2) \\
&:= 3 + (((33/3 + 3 \times 3^3) + 33) \\
&:= 4 + ((4+4) \times (4 \times (4^4 - 4) - 4)) \\
&:= 5 + ((5 \times 5 \times (5+5) + (5/5 + 5)^5) + 5) \\
&:= 6 + (((6+6) \times 666) + ((6+6)/6)) + 6 \times 6) \\
&:= 7 \times ((77 \times (7+7) - 7) + 77) \\
&:= (((8+8)/8 + 88)^{(8+8)/8}) - 8 \times 8 \\
&:= 9 + ((9 \times 9 \times 99 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8037 &:= ((1+1)^{1+1+11}) - (11 + (1+11)^{1+1}) \\
&:= 2/2 + ((2^2+2) \times (((22 + 2)^2) - 2)) \\
&:= 3 \times (((3 \times (33 \times 3^3)) + 3) + 3) \\
&:= 4 + (((4+4) \times (4 \times (4^4 - 4) - 4)) + 4/4) \\
&:= 5 + (((5 - 5/5)^{5-5/5}) + (5/5 + 5)^5) \\
&:= 6 + (((66/6) \times ((6 \times 6/(6+6))^6)) + 6) + 6) \\
&:= 7/7 + (7 \times ((77 \times (7+7) - 7) + 77)) \\
&:= (8/8 + 8) \times ((888 - 88/8 + 8) + 8) \\
&:= 9 + (9 \times 9 \times 99 + 9)
\end{aligned}$$

- 8038 := $((1+1)^{1+1+11}) - (11 \times (1 + (1+1+11)))$
:= $((22-2) \times ((22-2)^2 + 2)) - 2$
:= $3/3 + (3 \times ((3 \times (33 \times 3^3)) + 3) + 3)$
:= $4 + (((4+4) \times (4 \times (4^4 - 4) - 4)) + (4+4)/4)$
:= $5^5 + (((55+5)/5) + 5)^{5-(5+5)/5}$
:= $6 \times 6 + (((6+6) \times 666) + ((66-6)/6))$
:= $(7+7)/7 + (7 \times ((77 \times (7+7) - 7) + 77))$
:= $8 + (((8/8 + 8 \times 8) + 8) \times (888 - 8)/8)$
:= $9 + ((9 \times 9 \times 99 + 9/9) + 9)$
- 8039 := $11111 - ((1+1+1) \times (1+1)^{11-1})$
:= $((22-2) \times ((22-2)^2 + 2)) - 2/2$
:= $3 + (((33/3 + 3 \times 3^3) + 33) + 3)$
:= $4 + (((4+4) \times (4 \times (4^4 - 4) - 4)) - 4/4) + 4$
:= $5 \times 55 + ((5/5 + 5)^5 - ((55+5)/5))$
:= $6 \times 6 + (((6+6) \times 666) + (66/6))$
:= $77 \times 77 + (((7+7+7)/7)^7 - 77)$
:= $(8 \times (8 \times 8 \times (8+8) - 8)) - (8/8 + 88)$
:= $9 + (9 \times 9 \times 99 + (99/9))$
- 8040 := $(11 \times (1 + (1 + (11 - 1 - 1)^{1+1+1}))) - 1$
:= $(22-2) \times ((22-2)^2 + 2)$
:= $(3+3) \times ((33/3)^3 + 3 \times 3)$
:= $4 + (((4+4) \times (4 \times (4^4 - 4) - 4)) + 4)$
:= $5 \times 55 + ((5/5 + 5)^5 - (55/5))$
:= $6 + (((6+6) \times 666) + 6 \times 6 + 6)$
:= $7 + (((7+7)/7)^{7+7/7} + 7777)$
:= $(8 \times (8 \times 8 \times (8+8) - 8)) - 88$
:= $9 + (9 \times 9 \times 99 + (99+9)/9)$
- 8041 := $11 \times (1 + (1 + (11 - 1 - 1)^{1+1+1}))$
:= $2/2 + ((22-2) \times ((22-2)^2 + 2))$
:= $33/3 \times ((3^3+3 - 3/3) + 3)$
:= $(44 - 4/4) \times (4 \times 44 + 44/4)$
:= $5 \times 55 + ((5/5 + 5)^5 - (5+5))$
:= $66/6 \times (((66 \times 66 - 6)/6) + 6)$
:= $7 + ((7/7 + 77) \times ((777 - 7)/7 - 7))$
:= $8/8 + ((8 \times (8 \times 8 \times (8+8) - 8)) - 88)$
:= $99/9 \times (9 \times 9 \times 9 + (9+9)/9)$
- 8042 := $1 + (11 \times (1 + (1 + (11 - 1 - 1)^{1+1+1})))$
:= $2 + ((22-2) \times ((22-2)^2 + 2))$
:= $3 \times 3 + (((33/3 + 3 \times 3^3) + 33)$
:= $44 + (((4 \times 4 + 4)^{4-4/4}) - (4+4)/4)$
:= $5/5 + (((5/5 + 5)^5 - (5+5)) + 5 \times 55)$
:= $((6+6)/6) \times (6 \times (666+6) - (66/6))$
:= $7 + ((77 \times (7 \times (7+7) + 7)) - (7/7 + 7 \times 7))$
:= $(8+8)/8 + ((8 \times (8 \times 8 \times (8+8) - 8)) - 88)$
:= $9 \times 9 \times 99 + (99+99+9)/9$
- 8043 := $1 + (1 + (11 \times (1 + (1 + (11 - 1 - 1)^{1+1+1}))))$
:= $2 + (((22-2) \times ((22-2)^2 + 2)) + 2/2)$
:= $(3 \times (3 \times ((33 \times 3^3) + 3))) - 3$
:= $44 + (((4 \times 4 + 4)^{4-4/4}) - 4/4)$
:= $555 + (((55+5)/5) \times (5^5 - 5)/5)$
:= $6 + (((((66/6) \times ((6 \times 6/(6+6))^6)) + 6) + 6) + 6)$
:= $7 + (7 \times ((77 \times (7+7) - 7) + 77))$
:= $88/8 + ((8+8) \times ((8-88)/8 + 8 \times 8 \times 8))$
:= $9 + (((9 \times 9 \times 99 - ((9+9+9)/9)) + 9) + 9)$
- 8044 := $1 + (1 + (1 + (11 \times (1 + (1 + (11 - 1 - 1)^{1+1+1}))))$
:= $2 \times 22 + (22-2)^{2/2+2}$
:= $3 + (33/3 \times ((3^3+3 - 3/3) + 3))$
:= $44 + ((4 \times 4 + 4)^{4-4/4})$
:= $5 \times 5 + (((5 - (5+5)/5)^5) + (5/5 + 5)^5)$
:= $((6+6)/6)^6 + ((6+6) \times (666 - 6/6))$
:= $7 + (7 \times ((77 \times (7+7) - 7) + 77)) + 7/7$
:= $8 + (((8+8)/8 + 88)^{(8+8)/8} - 8 \times 8)$
:= $9 + (((9 \times 9 \times 99 - ((9+9)/9)) + 9) + 9)$
- 8045 := $((1+1)^{1+1+11}) - (1 + (1 + (1 + (1+11)^{1+1})))$
:= $2/2 + ((22-2)^{2/2+2} + 2 \times 22)$
:= $(3 \times (3 \times ((33 \times 3^3) + 3))) - 3/3$
:= $44 + (((4 \times 4 + 4)^{4-4/4}) + 4/4)$
:= $((5 \times 5 + 5) \times (5 \times 55 - 5)) - 55$
:= $6 + (((6+6) \times 666) + (66/6)) + 6 \times 6$
:= $((7+7)/7)^{7-7/7+7} - 7 \times (7+7+7)$
:= $((8+8) \times (8 \times 8 \times 8 - 8)) - (88/8 + 8)$
:= $9 + (((9 \times 9 \times 99 - 9/9) + 9) + 9)$
- 8046 := $(1+1) \times ((1+1+1) \times (11 + (11^{1+1+1} - 1)))$
:= $2 + ((22-2)^{2/2+2} + 2 \times 22)$
:= $3 \times (3 \times ((33 \times 3^3) + 3))$
:= $(4 \times ((4+4) \times (4^4 - 4) - 4)) - (4+4)/4$
:= $5 \times 55 + ((5/5 + 5)^5 - 5)$
:= $66 + ((6+6) \times (666 - 6/6))$
:= $7777 + ((7 \times 7 \times 77 - 7)/(7+7))$
:= $(8/8 + 8) \times ((888 - ((8+8)/8)) + 8)$
:= $9 + (9 \times 9 \times 99 + 9) + 9$
- 8047 := $((1+1)^{1+1+11}) - (1 + (1 + 11)^{1+1})$
:= $2 + (((22-2)^{2/2+2} + 2 \times 22) + 2/2)$
:= $3/3 + (3 \times (3 \times ((33 \times 3^3) + 3)))$
:= $(4 \times ((4+4) \times (4^4 - 4) - 4)) - 4/4$
:= $5/5 + (((5/5 + 5)^5 - 5) + 5 \times 55)$
:= $66 + (((6+6) \times 666) - (66/6))$
:= $77/7 + (7 \times ((77 \times (7+7) - 7) + 77))$
:= $8 \times 8 + ((8/8 + 8) \times (888 - 8/8))$
:= $9 + (((9 \times 9 \times 99 + 9/9) + 9) + 9)$
- 8048 := $((1+1)^{1+1+11}) - (1+11)^{1+1}$
:= $2 \times (2 \times (2^{22/2} - (2+2+2)^2))$
:= $3 + ((3 \times (3 \times ((33 \times 3^3) + 3))) - 3/3)$
:= $4 \times ((4+4) \times (4^4 - 4) - 4)$
:= $5 \times 55 + (((5/5 + 5)^5 - 5) + ((5+5)/5))$
:= $66 + (((6+6) \times 666) + ((6-66)/6))$
:= $((7/7 + 7 + 7) \times (7 \times 77 - ((7+7)/7))) - 7$
:= $(8+8) \times (8 \times 8 \times 8 - (8/8 + 8))$
:= $9 + ((9 \times 9 \times 99 + (99/9)) + 9)$
- 8049 := $1 + (((1+1)^{1+1+11}) - (1+11)^{1+1})$
:= $(2^{22/2+2}) - ((22/2)^2 + 22)$
:= $3 + (3 \times (3 \times ((33 \times 3^3) + 3)))$
:= $4/4 + (4 \times ((4+4) \times (4^4 - 4) - 4))$
:= $5 \times 55 + ((5/5 + 5)^5 - ((5+5)/5))$
:= $6 \times 6 + (((66/6) \times ((6 \times 6/(6+6))^6)) - 6)$
:= $7 \times 7 + (((7-7/7+7) + 7)^{(7+7+7)/7})$
:= $8/8 + ((8+8) \times (8 \times 8 \times 8 - (8/8 + 8)))$
:= $999/9 + 9 \times (9 \times 99 - 9)$
- 8050 := $1 + (1 + (((1+1)^{1+1+11}) - (1+11)^{1+1}))$
:= $(22 + 2/2) \times ((22 \times 2^{2+2}) - 2)$
:= $3 + ((3 \times (3 \times ((33 \times 3^3) + 3))) + 3/3)$
:= $(4+4)/4 + (4 \times ((4+4) \times (4^4 - 4) - 4))$
:= $5 \times (5 \times (((5^5 - 5)/5 + 5) + 5))$
:= $((6+6)/6)^6 + (((6+6) \times 666) - 6)$
:= $(7/7 + 7 \times 7) \times ((77 + 77) + 7)$
:= $(8+8)/8 + ((8+8) \times (8 \times 8 \times 8 - (8/8 + 8)))$
:= $9 + (((99+99)/9) + 9 \times 9 \times 99)$
- 8051 := $(((((1+1+1)^{11}) - 1)/(1+1)) - 1)/11 - 1$
:= $22/2 + ((22-2) \times ((22-2)^2 + 2))$
:= $(33 \times ((3^3+3)/3)) - 3/3$
:= $4 + ((4 \times ((4+4) \times (4^4 - 4) - 4)) - 4/4)$
:= $5 \times 55 + (5/5 + 5)^5$
:= $66 + (((6+6) \times 666) - (6/6 + 6))$
:= $(77 - 7/7 + 7) \times (7 \times (7+7) - 7/7)$
:= $88/8 + ((8 \times (8 \times 8 \times (8+8) - 8)) - 88)$
:= $((9+9)/9) + 9 \times 9 \times (99 - ((9+9)/9))$
- 8052 := $(((((1+1+1)^{11}) - 1)/(1+1)) - 1)/11$
:= $22 \times ((2 \times (2+2+2))^2) + 222$
:= $33 \times ((3^3+3)/3)$
:= $4 + (4 \times ((4+4) \times (4^4 - 4) - 4))$
:= $5/5 + ((5/5 + 5)^5 + 5 \times 55)$
:= $66 + (((6+6) \times 666) - 6)$
:= $(77 - 77/7) \times (777 + 77)/7$
:= $((8+8) \times (8 \times 8 \times 8 - 8)) - (88+8)/8$
:= $99/9 \times (((9+9+9)/9) + 9 \times 9 \times 9)$

$$\begin{aligned}
\blacktriangleright 8053 &:= 1 + ((((((1+1+1)^{11}) - 1)/(1+1)) - 1)/11) \\
&:= 22^2 + ((2 \times 2 \times 22 - 2/2)^2) \\
&:= 3/3 + (33 \times ((3^{3+3} + 3)/3)) \\
&:= (4 \times (4+4) \times (4^4 - 4)) - 44/4 \\
&:= 5 \times 55 + ((5/5+5)^5 + ((5+5)/5)) \\
&:= (6+6) \times (666+6) - 66/6 \\
&:= (((7+7)/7)^7 \times (7 \times 7 + 7 + 7)) - 77/7 \\
&:= ((8+8) \times (8 \times 8 \times 8 - 8)) - 88/8 \\
&:= ((9-9/9) \times (999+9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8058 &:= (1+1) \times ((1+1+1) \times (1+(11+11^{1+1+1}))) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) - (2 \times 22)) \\
&:= 3 + ((33 \times ((3^{3+3} + 3)/3)) + 3) \\
&:= (4 \times (4+4) \times (4^4 - 4)) - ((4+4)/4 + 4) \\
&:= 5 + (((5/5+5)^5 + 5 \times 55) + ((5+5)/5)) \\
&:= 66 + ((6+6) \times 666) \\
&:= 7 + ((77 - 7/7 + 7) \times (7 \times (7+7) - 7/7)) \\
&:= (8+8)/8 + (((8+8) \times (8 \times 8 \times 8 - 8)) - 8) \\
&:= 9 + (9 \times (9 \times 99 - 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8063 &:= ((1+111) \times ((1+11)^{1+1}/(1+1))) - 1 \\
&:= (((22+2)^2) \times (2^{2+2} - 2)) - 2/2 \\
&:= 33/3 \times ((3^{3+3} + 3/3) + 3) \\
&:= (4 \times (4+4) \times (4^4 - 4)) - 4/4 \\
&:= 5 \times 55 + ((5/5+5)^5 + ((55+5)/5)) \\
&:= (6+6) \times (666+6) - 6/6 \\
&:= (((7+7)/7)^7 \times (7 \times 7 + 7 + 7)) - 7/7 \\
&:= ((8+8) \times (8 \times 8 \times 8 - 8)) - 8/8 \\
&:= ((9-9/9) \times (999+9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8054 &:= 1 + (1 + ((((((1+1+1)^{11}) - 1)/(1+1)) - 1)/11)) \\
&:= ((2 \times 2 \times 22 + 2)^2) - (2 \times 22 + 2) \\
&:= 3 + ((33 \times ((3^{3+3} + 3)/3)) - 3/3) \\
&:= (4 - 44)/4 + (4 \times (4+4) \times (4^4 - 4)) \\
&:= 5^5 + (5555 - (5^5 + 5)/5) \\
&:= (6 - 66)/6 + (6+6) \times (666+6) \\
&:= 7 + ((7 \times ((77 \times (7+7) - 7) + 77)) + (77/7)) \\
&:= (8 - 88)/8 + ((8+8) \times (8 \times 8 \times 8 - 8)) \\
&:= 9 + (((9 \times 9 \times 99 - 9/9) + 9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8059 &:= ((1+1)^{1+1+11}) - (1 + (11 \times (1+11))) \\
&:= (2^{22/2+2}) - (222/2 + 22) \\
&:= 3 + (((33 \times ((3^{3+3} + 3)/3)) + 3/3) + 3) \\
&:= (4 \times (4+4) \times (4^4 - 4)) - 4/4 - 4 \\
&:= 5 + ((5555 - (5^5 + 5)/5) + 5^5) \\
&:= 66 + (((6+6) \times 666) + 6/6) \\
&:= 7 + ((77 - 77/7) \times (777 + 77)/7) \\
&:= 88/8 + ((8+8) \times (8 \times 8 \times 8 - (8/8 + 8))) \\
&:= 9 \times 9 \times 99 + ((9 \times 9 \times 9 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8064 &:= (1+111) \times ((1+11)^{1+1}/(1+1)) \\
&:= ((22+2)^2) \times (2^{2+2} - 2) \\
&:= (3^3 - 3) \times (333 + 3) \\
&:= 4 \times (4+4) \times (4^4 - 4) \\
&:= (5/5 + 5) \times ((5 \times 5 - 5/5) \times (55 + 5/5)) \\
&:= (6+6) \times (666+6) \\
&:= ((7+7)/7)^7 \times (7 \times 7 + 7 + 7) \\
&:= (8+8) \times (8 \times 8 \times 8 - 8) \\
&:= (9-9/9) \times (999+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8055 &:= (1+1+1) \times (1 + ((1+1) \times (11+11^{1+1+1}))) \\
&:= 2 + (((2 \times 2 \times 22 - 2/2)^2) + 22^2) \\
&:= 3 + (33 \times ((3^{3+3} + 3)/3)) \\
&:= (44 + 4/4) \times ((4 \times 44 - 4/4) + 4) \\
&:= 55 + ((5 \times 5 - 5)^{5-(5+5)/5}) \\
&:= 6 \times 6 + (((66/6) \times ((6 \times 6/(6+6))^6)) \\
&:= (7/7 + 7 + 7) \times (7 \times 77 - ((7+7)/7)) \\
&:= (8/8 + 8) \times (888 - 8/8 + 8) \\
&:= 9 + (((9 \times 9 \times 99 + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8060 &:= ((1+1)^{1+1+11}) - (11 \times (1+11)) \\
&:= 2 \times ((2 \times (2^{22/2} - 22)) - 22) \\
&:= 3^3 + (((33/3 + 3 \times 3)^3) + 33) \\
&:= (4 \times (4+4) \times (4^4 - 4)) - 4 \\
&:= (55 + 5 + 5) \times (5 \times 5 \times 5 - 5/5) \\
&:= 66 + (((6+6) \times 666) + ((6+6)/6)) \\
&:= 7777 + (7 \times (7 \times 7 - 7) - (77/7)) \\
&:= ((8+8) \times (8 \times 8 \times 8 - 8)) - 8 \times 8/(8+8) \\
&:= 9 \times 9 \times 99 + ((9 \times 9 \times 9 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8065 &:= 1 + ((1+111) \times ((1+11)^{1+1}/(1+1))) \\
&:= 2/2 + (((22+2)^2) \times (2^{2+2} - 2)) \\
&:= 3/3 + ((3^3 - 3) \times (333 + 3)) \\
&:= 4/4 + (4 \times (4+4) \times (4^4 - 4)) \\
&:= 5 + ((55 + 5 + 5) \times (5 \times 5 \times 5 - 5/5)) \\
&:= 6/6 + (6+6) \times (666+6) \\
&:= 7/7 + (((7+7)/7)^7 \times (7 \times 7 + 7 + 7)) \\
&:= 8/8 + ((8+8) \times (8 \times 8 \times 8 - 8)) \\
&:= 9/9 + ((9-9/9) \times (999+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8056 &:= (1 + (11 \times ((1+1+11)^{1+1+1}))) / (1+1+1) \\
&:= ((2 \times 2 \times 22 + 2)^2) - (2 \times 22) \\
&:= 3 + ((33 \times ((3^{3+3} + 3)/3)) + 3/3) \\
&:= (4+4) \times (4 \times (4^4 - 4) - 4/4) \\
&:= 5 + ((5/5+5)^5 + 5 \times 55) \\
&:= ((6+6)/6)^6 + ((6+6) \times 666) \\
&:= (77 - 7/7) \times ((7 \times (7+7) + 7/7) + 7) \\
&:= ((8+8) \times (8 \times 8 \times 8 - 8)) - 8 \\
&:= (9-9/9) \times ((999-9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8061 &:= 1 + (((1+1)^{1+1+11}) - (11 \times (1+11))) \\
&:= (((22+2)^2) \times (2^{2+2} - 2)) - 2/2 - 2 \\
&:= ((3^3 - 3) \times (333 + 3)) - 3 \\
&:= 4/4 + ((4 \times (4+4) \times (4^4 - 4)) - 4) \\
&:= 5 + (((5/5+5)^5 + 5 \times 55) + 5) \\
&:= (6+6) \times (666+6) - 6 \times 6/(6+6) \\
&:= 77/7 + ((7/7 + 7 \times 7) \times ((77 + 77) + 7)) \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 - 8)) - (88/8)) \\
&:= 9 + ((99/((9+9+9)/9)) + 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8066 &:= (1+1) \times (((111-1)^{1+1}) - 1) / (1+1+1) \\
&:= 2 + (((22+2)^2) \times (2^{2+2} - 2)) \\
&:= 3 + (33/3 \times ((3^{3+3} + 3/3) + 3)) \\
&:= (4+4)/4 + (4 \times (4+4) \times (4^4 - 4)) \\
&:= 5 + (((5/5+5)^5 + 5 \times 55) + 5) + 5 \\
&:= (6+6)/6 + (6+6) \times (666+6) \\
&:= (7+7)/7 + (((7+7)/7)^7 \times (7 \times 7 + 7 + 7)) \\
&:= (8+8)/8 + ((8+8) \times (8 \times 8 \times 8 - 8)) \\
&:= (9+9)/9 + ((9-9/9) \times (999+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8057 &:= ((1+1) \times (((1+1)^{1+1+1}) - (1+11))) - 111 \\
&:= 2/2 + (((2 \times 2 \times 22 + 2)^2) - (2 \times 22)) \\
&:= 3^3 + (33/3 \times (3^{3+3} + 3/3)) \\
&:= 4 + ((4 \times (4+4) \times (4^4 - 4)) - 44/4) \\
&:= 5 + (((5/5+5)^5 + 5 \times 55) + 5/5) \\
&:= 66 + (((6+6) \times 666) - 6/6) \\
&:= 7 \times 7 + (77 \times (777/7 - 7)) \\
&:= 8/8 + (((8+8) \times (8 \times 8 \times 8 - 8)) - 8) \\
&:= 9 + (((9 \times 9 \times 99 + (99/9)) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8062 &:= 1 + (1 + (((1+1)^{1+1+11}) - (11 \times (1+11)))) \\
&:= (((22+2)^2) \times (2^{2+2} - 2)) - 2 \\
&:= 3/3 + (((3^3 - 3) \times (333 + 3)) - 3) \\
&:= (4 \times (4+4) \times (4^4 - 4)) - (4+4)/4 \\
&:= 5 \times 55 + ((5/5+5)^5 + (55/5)) \\
&:= (6+6) \times (666+6) - (6+6)/6 \\
&:= 7 + ((7/7 + 7 + 7) \times (7 \times 77 - ((7+7)/7))) \\
&:= ((8+8) \times (8 \times 8 \times 8 - 8)) - (8+8)/8 \\
&:= ((9-9/9) \times (999+9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8067 &:= (1 + ((1+1) \times ((111-1)^{1+1}))) / (1+1+1) \\
&:= 2 + (((22+2)^2) \times (2^{2+2} - 2)) + 2/2 \\
&:= 3 + ((3^3 - 3) \times (333 + 3)) \\
&:= 4 + ((4 \times (4+4) \times (4^4 - 4)) - 4/4) \\
&:= 5 + (((5/5+5)^5 + 5 \times 55) + (55/5)) \\
&:= (6 \times 6/(6+6)) + (6+6) \times (666+6) \\
&:= (77 \times (7 \times (7+7) + 7)) - (77/7 + 7) \\
&:= 88/8 + (((8+8) \times (8 \times 8 \times 8 - 8)) - 8) \\
&:= 9 + ((9 \times (9 \times 99 - 9) + 999/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8068 &:= 1 + ((1 + ((1 + 1) \times ((111 - 1)^{1+1}))) / (1 + 1 + 1)) \\
&:= 2 + (((22 + 2)^2) \times (2^{2+2} - 2) + 2) \\
&:= 3 + (((3^3 - 3) \times (333 + 3)) + 3/3) \\
&:= 4 + (4 \times (4 + 4) \times (4^4 - 4)) \\
&:= ((5 \times 5 + 5) \times (5 \times 55 - 5)) - ((5 + 5)/5)^5 \\
&:= 6 + ((6 + 6) \times (666 + 6) - ((6 + 6)/6)) \\
&:= ((7 - 77)/7) + ((77 \times (7 \times (7 + 7) + 7)) - 7) \\
&:= 8 \times 8 / (8 + 8) + ((8 + 8) \times (8 \times 8 \times 8 - 8)) \\
&:= 9 \times 9 \times 99 + ((9 \times 99 - 9) / (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8069 &:= ((1 + 1)^{1+1+11}) - (1 + (1 + 11^{1+1})) \\
&:= (2^{22/2+2}) - ((22/2)^2 + 2) \\
&:= 3 + ((33/3 \times ((3^{3+3} + 3/3) + 3)) + 3) \\
&:= 4 + ((4 \times (4 + 4) \times (4^4 - 4)) + 4/4) \\
&:= (5 \times (5 \times (5 \times (55 + 5 + 5)))) - (55 + 5/5) \\
&:= 6 + ((6 + 6) \times (666 + 6) - 6/6) \\
&:= 7777 + (7 \times (7 \times 7 - 7) - ((7 + 7)/7)) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8)) - (88/8) + 8) \\
&:= 9 \times 9 \times 99 + ((9 \times 99 + 9) / (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8070 &:= ((1 + 1)^{1+1+11}) - (1 + 11^{1+1}) \\
&:= 2 + (((22 + 2)^2) \times (2^{2+2} - 2) + 2) + 2) \\
&:= 3 + (((3^3 - 3) \times (333 + 3)) + 3) \\
&:= 4 + ((4 \times (4 + 4) \times (4^4 - 4)) + (4 + 4)/4) \\
&:= (5/5 + 5) \times (5 \times (5 \times 55 - 5) - 5) \\
&:= 6 + (6 + 6) \times (666 + 6) \\
&:= (7/7 + 7 + 7) \times (7 \times 77 - 7/7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8)) - ((8 + 8)/8)) \\
&:= 9 \times (9 \times 99 + 9 + 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8071 &:= ((1 + 1)^{1+1+11}) - 11^{1+1} \\
&:= (2^{22/2+2}) - (22/2)^2 \\
&:= 3 + (((3^3 - 3) \times (333 + 3)) + 3/3) + 3) \\
&:= 4 + (((4 \times (4 + 4) \times (4^4 - 4)) - 4/4) + 4) \\
&:= 5 \times (55 + 5) + ((5/5 + 5)^5 - 5) \\
&:= 6 + ((6 + 6) \times (666 + 6) + 6/6) \\
&:= 7777 + 7 \times (7 \times 7 - 7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8)) - 8/8) \\
&:= 9 \times (9 \times 99 + 9) - (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8072 &:= 1 + (((1 + 1)^{1+1+11}) - 11^{1+1}) \\
&:= 2 \times ((2^{2+2} \times 222) + 22^2) \\
&:= (3 \times (3^3 - 3)) + ((33/3 + 3 \times 3)^3) \\
&:= 4 + ((4 \times (4 + 4) \times (4^4 - 4)) + 4) \\
&:= 5/5 + (((5/5 + 5)^5 - 5) + 5 \times (55 + 5)) \\
&:= 6 + ((6 + 6) \times (666 + 6) + ((6 + 6)/6)) \\
&:= 7/7 + (7777 + 7 \times (7 \times 7 - 7)) \\
&:= 8 + ((8 + 8) \times (8 \times 8 \times 8 - 8)) \\
&:= (9 - 9/9) \times ((999 + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8073 &:= 1 + (1 + (((1 + 1)^{1+1+11}) - 11^{1+1})) \\
&:= 2 + ((2^{22/2+2}) - (22/2)^2) \\
&:= 3 \times (3 \times (((33 \times 3^3) + 3) + 3)) \\
&:= 4 + (((4 \times (4 + 4) \times (4^4 - 4)) + 4/4) + 4) \\
&:= (55 + 5 + 5)/5 \times ((5^5 + 5)/5 - 5) \\
&:= 6 + ((6 + 6) \times (666 + 6) + (6 \times 6 / (6 + 6))) \\
&:= (77 \times (7 \times (7 + 7) + 7)) - (77 + 7)/7 \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8)) + 8/8) \\
&:= 9 + ((9 - 9/9) \times (999 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8074 &:= 1 + (1 + (1 + ((1 + 1)^{1+1+11}) - 11^{1+1})) \\
&:= 22 \times (222/2 + 2^{2 \times (2+2)}) \\
&:= 3/3 + (3 \times (3 \times (((33 \times 3^3) + 3) + 3))) \\
&:= (44 - 4)/4 + (4 \times (4 + 4) \times (4^4 - 4)) \\
&:= 55 + (((5 - (5 + 5)/5)^5) + (5/5 + 5)^5) \\
&:= ((66 - 6)/6) + (6 + 6) \times (666 + 6) \\
&:= (77 \times (7 \times (7 + 7) + 7)) - 77/7 \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8)) + ((8 + 8)/8)) \\
&:= 9 + (((9 - 9/9) \times (999 + 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8075 &:= 11 + ((1 + 111) \times ((1 + 11)^{1+1} / (1 + 1))) \\
&:= 2 + (((22/2+2) - (22/2)^2) + 2) \\
&:= 33/3 + ((3^3 - 3) \times (333 + 3)) \\
&:= 44/4 + (4 \times (4 + 4) \times (4^4 - 4)) \\
&:= 5 \times ((5 \times (5^5 - 5) / (5 + 5)) + 55) \\
&:= 66/6 + (6 + 6) \times (666 + 6) \\
&:= ((7 - 77)/7) + (77 \times (7 \times (7 + 7) + 7)) \\
&:= 88/8 + ((8 + 8) \times (8 \times 8 \times 8 - 8)) \\
&:= 99/9 + ((9 - 9/9) \times (999 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8076 &:= (1 + 11) \times (1 + ((1 + 1) \times ((1 + 1 + 1) \times (1 + 11)))) \\
&:= ((2 \times 2 \times 22 + 2)^2) - 22 - 2 \\
&:= 3 + (3 \times (3 \times (((33 \times 3^3) + 3) + 3))) \\
&:= (4 \times ((4 + 4) \times (4^4 - 4) + 4)) - 4 \\
&:= 5 \times (55 + 5) + (5/5 + 5)^5 \\
&:= 6 + ((6 + 6) \times (666 + 6) + 6) \\
&:= (77 \times (7 \times (7 + 7) + 7)) - ((7 + 7)/7 + 7) \\
&:= ((88 + 8)/8) + ((8 + 8) \times (8 \times 8 \times 8 - 8)) \\
&:= 9 \times 9 \times 99 + (((9 + 9)/9)^9) + 9/9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8077 &:= ((1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} - 1))) - 111 \\
&:= ((2 \times 2 \times 22 + 2)^2) - 22 - 2/2 \\
&:= 3 + ((3 \times (3 \times (((33 \times 3^3) + 3) + 3))) + 3/3) \\
&:= 4/4 + ((4 \times ((4 + 4) \times (4^4 - 4) + 4)) - 4) \\
&:= 5/5 + (5 \times (55 + 5) + (5/5 + 5)^5) \\
&:= 6 + (((6 + 6) \times (666 + 6) + 6/6) + 6) \\
&:= (77 \times (7 \times (7 + 7) + 7)) - (7/7 + 7) \\
&:= (88 + 8 + 8)/8 + ((8 + 8) \times (8 \times 8 \times 8 - 8)) \\
&:= 9 + (((9 \times 99 - 9) / (9 + 9)) + 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8078 &:= ((1 + 1)^{1+1+11}) - (1 + 1 + 1 + 111) \\
&:= ((2 \times 2 \times 22 + 2)^2) - 22 \\
&:= 3 \times 3^3 + (((33/3 + 3 \times 3)^3) - 3) \\
&:= (4 \times ((4 + 4) \times (4^4 - 4) + 4)) - (4 + 4)/4 \\
&:= 5 + ((55 + 5 + 5)/5 \times ((5^5 + 5)/5 - 5)) \\
&:= 6 + (((6 + 6) \times (666 + 6) + ((6 + 6)/6)) + 6) \\
&:= (77 \times (7 \times (7 + 7) + 7)) - 7 \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8)) - ((8 + 8)/8) + 8) \\
&:= 9 \times (9 \times 99 + 9) - ((99 + 99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8079 &:= ((1 + 1)^{1+1+11}) - (1 + 1 + 111) \\
&:= 2/2 + (((2 \times 2 \times 22 + 2)^2) - 22) \\
&:= 3^3 + (33 \times ((3^{3+3} + 3)/3)) \\
&:= (4 \times ((4 + 4) \times (4^4 - 4) + 4)) - 4/4 \\
&:= (5/5 + 5)^5 + ((5^5 + 5) / (5 + 5) - (5 + 5)) \\
&:= ((66/6) \times (((6 \times 6 / (6 + 6))^6) + 6)) - 6 \\
&:= 7/7 + ((77 \times (7 \times (7 + 7) + 7)) - 7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8)) - 8/8) + 8) \\
&:= 9 \times (9 \times 99 + 9) - ((99 + 9) / 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8080 &:= ((1 + 1)^{1+1+11}) - (1 + 111) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) - 22) \\
&:= 3^3 + ((33 \times ((3^{3+3} + 3)/3)) + 3/3) \\
&:= 4 \times ((4 + 4) \times (4^4 - 4) + 4) \\
&:= 5 + (5 \times ((5 \times (5^5 - 5) / (5 + 5)) + 55)) \\
&:= 6 + ((6 + 6) \times (666 + 6) + ((66 - 6)/6)) \\
&:= (7 + 7)/7 + ((77 \times (7 \times (7 + 7) + 7)) - 7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 - 8)) + 8) \\
&:= (9 - 9/9) \times (99/9 + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8081 &:= ((1 + 1)^{1+1+11}) - 111 \\
&:= (2^{22/2+2}) - 222/2 \\
&:= 3 \times 3^3 + ((33/3 + 3 \times 3)^3) \\
&:= 4/4 + (4 \times ((4 + 4) \times (4^4 - 4) + 4)) \\
&:= 5 + (5 \times (55 + 5) + (5/5 + 5)^5) \\
&:= 6 + ((6 + 6) \times (666 + 6) + (66/6)) \\
&:= 7 + ((77 \times (7 \times (7 + 7) + 7)) - (77/7)) \\
&:= (8 \times 8 \times 8 \times (8 + 8)) - 888/8 \\
&:= 9 \times (9 \times 99 + 9) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8082 &:= 1 + (((1 + 1)^{1+1+11}) - 111) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) - 22) + 2) \\
&:= 3 \times ((3 \times (((33 \times 3^3) + 3) + 3)) + 3) \\
&:= (4 + 4)/4 + (4 \times ((4 + 4) \times (4^4 - 4) + 4)) \\
&:= 5 + ((5 \times (55 + 5) + (5/5 + 5)^5) + 5/5) \\
&:= 6 + (((6 + 6) \times (666 + 6) + 6) + 6) \\
&:= (77 \times (7 \times (7 + 7) + 7)) - (7 + 7 + 7)/7 \\
&:= (8/8 + 8) \times ((888 + ((8 + 8)/8)) + 8) \\
&:= 9 \times (9 \times 99 + 9) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8083 &:= 1 + (1 + (((1+1)^{1+1+11}) - 111)) \\
&:= 2 + ((2^{22/2+2}) - 222/2) \\
&:= ((3/3+3)^3) + (3 \times (3 \times (33 \times 3^3))) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) + 4)) - 4/4) \\
&:= (5/5+5)^5 + (5^5 - 55)/(5+5) \\
&:= 6 + (((6+6) \times (666+6) + 6/6) + 6) + 6 \\
&:= (77 \times (7 \times (7+7) + 7)) - (7+7)/7 \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 - 8)) + (88/8)) \\
&:= 9/9 + (9 \times (9 \times 99 + 9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8084 &:= 1 + (1 + (1 + (((1+1)^{1+1+11}) - 111))) \\
&:= ((2 \times 2 \times 22 + 2)^2) - 2^{2+2} \\
&:= 3 + (((33/3+3 \times 3)^3) + 3 \times 3^3) \\
&:= 4 + (4 \times ((4+4) \times (4^4 - 4) + 4)) \\
&:= (5/5+5)^5 + ((5^5+5)/(5+5) - 5) \\
&:= (((6+6)/6)^{6/6+6+6}) - 6 \times (6+6+6) \\
&:= (77 \times (7 \times (7+7) + 7)) - 7/7 \\
&:= (((8+8)/8+88)^{(8+8)/8}) - 8 - 8 \\
&:= (9+9)/9 + (9 \times (9 \times 99 + 9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8085 &:= ((1+1) \times (1 + (1 + ((1+1)^{1+1+11})))) - 111 \\
&:= 2 + (((2^{22/2+2}) - 222/2) + 2) \\
&:= 33 \times (((3^3+3) - 3)/3 + 3) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) + 4)) + 4/4) \\
&:= 5 \times (((5^5 - 5/5)/(5+5)/5) + 55) \\
&:= 66/6 \times (((6 \times 6/(6+6))^6) + 6) \\
&:= 77 \times (7 \times (7+7) + 7) \\
&:= (88 - 88/8) \times (((8/8+88) + 8) + 8) \\
&:= 99/9 \times ((9 \times 9 \times 9 - ((9+9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8086 &:= 1 + (((1+1) \times (1 + (1 + ((1+1)^{1+1+11})))) - 111) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) - 2^{2+2}) \\
&:= 3/3 + (33 \times (((3^3+3) - 3)/3 + 3)) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) + 4)) + (4+4)/4) \\
&:= 5 + ((5 \times (55+5) + (5/5+5)^5) + 5) \\
&:= 6 \times 666 + (((6+6)/6)^{6+6}) - 6 \\
&:= 7/7 + (77 \times (7 \times (7+7) + 7)) \\
&:= ((8+8)/8) \times (8 \times (8 \times 8 \times 8 - 8) + (88/8)) \\
&:= ((9-99)/(9+9)) + (9 \times (9 \times 99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8087 &:= ((11-1) \times (11-1-1))^{1+1} - 1 - 1 - 11 \\
&:= ((2 \times 2 \times 22 + 2)^2) - (22/2 + 2) \\
&:= 3 + (((33/3+3 \times 3)^3) + 3 \times 3^3) + 3 \\
&:= 4 + (((4 \times ((4+4) \times (4^4 - 4) + 4)) - 4/4) + 4) \\
&:= 55/5 + (5 \times (55+5) + (5/5+5)^5) \\
&:= 6 + (((6+6) \times (666+6) + (66/6)) + 6) \\
&:= (7+7)/7 + (77 \times (7 \times (7+7) + 7)) \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 - 8)) - 8/8) + 8 + 8 \\
&:= 9 \times (9 \times 99 + 9) - (99+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8088 &:= ((11-1) \times (11-1-1))^{1+1} - 11 - 1 \\
&:= 2 \times (2 \times (2^{22/2} - (22+2+2))) \\
&:= 3 + (33 \times (((3^3+3) - 3)/3 + 3)) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) + 4)) + 4) \\
&:= (5/5+5)^5 + (5^5 - 5)/(5+5) \\
&:= (6+6) \times (((666+6) + 6/6) + 6) \\
&:= (7+7+7)/7 + (77 \times (7 \times (7+7) + 7)) \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 - 8)) + 8) + 8 \\
&:= 9 \times (9 \times 99 + 9) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8089 &:= ((11-1) \times (11-1-1))^{1+1} - 11 \\
&:= ((2 \times 2 \times 22 + 2)^2) - 22/2 \\
&:= (3 \times (33/3)^3) + (3/3+3)^{3+3} \\
&:= 4 + (((4 \times ((4+4) \times (4^4 - 4) + 4)) + 4/4) + 4) \\
&:= (5/5+5)^5 + (5^5+5)/(5+5) \\
&:= 6 \times 6 + ((6+6) \times (666+6) - (66/6)) \\
&:= 77/7 + ((77 \times (7 \times (7+7) + 7)) - 7) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) - 888/8) \\
&:= 9 \times (9 \times 99 + 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8090 &:= ((11-1) \times (11-1-1))^{1+1} - 11 + 1 \\
&:= ((2-22)/2) + ((2 \times 2 \times 22 + 2)^2) \\
&:= 3 \times (3^3 + 3) + ((33/3+3 \times 3)^3) \\
&:= (44-4)/4 + (4 \times ((4+4) \times (4^4 - 4) + 4)) \\
&:= ((5 \times 5 + 5) \times (5 \times 55 - 5)) - 5 - 5 \\
&:= (((6+6)/6)^{6/6+6+6}) - (6 \times 6 + 66) \\
&:= 7 + ((77 \times (7 \times (7+7) + 7)) - ((7+7)/7)) \\
&:= 8 + (((8-888)/8) + (8 \times 8 \times 8 \times (8+8))) \\
&:= 9 \times (9 \times 99 + 9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8091 &:= 11 + (((1+1)^{1+1+11}) - (1+111)) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) - 22/2) \\
&:= 3 \times (((3 \times (33 \times 3^3)) - 3) + 3^3) \\
&:= 44/4 + (4 \times ((4+4) \times (4^4 - 4) + 4)) \\
&:= (5/5+5)^5 + ((5 \times 5 + 5^5)/(5+5)) \\
&:= 6 + ((66/6) \times (((6 \times 6/(6+6))^6) + 6)) \\
&:= 7 + ((77 \times (7 \times (7+7) + 7)) - 7/7) \\
&:= (8/8+8) \times (888+88/8) \\
&:= 9 \times (9 \times 99 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8092 &:= 11 + (((1+1)^{1+1+11}) - 111) \\
&:= 2 \times (2 \times ((2 \times 22 + 2/2)^2 - 2)) \\
&:= 3 + ((3 \times (33/3)^3) + (3/3+3)^{3+3}) \\
&:= ((4+4) \times (4 \times (4^4 - 4) + 4)) - 4 \\
&:= (5-5/5) \times (((5+5)/5)^{55/5}) - 5 \times 5 \\
&:= 6 \times 666 + (((6+6)/6)^{6+6}) \\
&:= 7 + (77 \times (7 \times (7+7) + 7)) \\
&:= (((8+8)/8+88)^{(8+8)/8}) - 8 \\
&:= 9/9 + (9 \times (9 \times 99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8093 &:= 1 + (11 + (((1+1)^{1+1+11}) - 111)) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) - 22/2 + 2) \\
&:= 3 + (((33/3+3 \times 3)^3) + 3 \times (3^3 + 3)) \\
&:= 4/4 + (((4+4) \times (4 \times (4^4 - 4) + 4)) - 4) \\
&:= 5 + ((5^5 - 5)/(5+5) + (5/5+5)^5) \\
&:= 6 \times 6 + (((6+6) \times 666) - 6/6) + 66 \\
&:= 7 + ((77 \times (7 \times (7+7) + 7)) + 7/7) \\
&:= (8 \times 8 \times 8 \times (8+8)) - (88/8+88) \\
&:= (9+9)/9 + (9 \times (9 \times 99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8094 &:= 1 + (1 + (11 + (((1+1)^{1+1+11}) - 111))) \\
&:= ((2 \times 2 \times 22 + 2)^2) - 2 - 2 - 2 \\
&:= (3+3) \times ((33/3)^3 + (3 \times (3+3))) \\
&:= ((4+4) \times (4 \times (4^4 - 4) + 4)) - (4+4)/4 \\
&:= 5 + ((5^5+5)/(5+5) + (5/5+5)^5) \\
&:= 6 \times 6 + (((6+6) \times 666) + 66) \\
&:= 7 + ((77 \times (7 \times (7+7) + 7)) + ((7+7)/7)) \\
&:= (8-88)/8 + ((8 \times 8 \times 8 \times (8+8)) - 88) \\
&:= ((9+9+9)/9) + (9 \times (9 \times 99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8095 &:= 1 + (1 + (1 + (11 + (((1+1)^{1+1+11}) - 111)))) \\
&:= ((2 \times 2 \times 22 + 2)^2) - 2/2 - 2 - 2 \\
&:= 3/3 + ((3+3) \times ((33/3)^3 + (3 \times (3+3)))) \\
&:= ((4+4) \times (4 \times (4^4 - 4) + 4)) - 4/4 \\
&:= ((5 \times 5 + 5) \times (5 \times 55 - 5)) - 5 \\
&:= 6 \times 6 + (((6+6) \times 666) + 66) + 6/6 \\
&:= ((77-7)/7) + (77 \times (7 \times (7+7) + 7)) \\
&:= (8 \times 8 \times 8 \times (8+8)) - ((8/8+88) + 8) \\
&:= ((9-99)/(9+9)) + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8096 &:= (1+1) \times ((1+1) \times ((1+1)^{11} - ((1+1) \times (1+1)))) \\
&:= 2^{2+2} \times (22^2 + 22) \\
&:= 3 \times 33 + (((33/3+3 \times 3)^3) - 3) \\
&:= (4+4) \times (4 \times (4^4 - 4) + 4) \\
&:= 55/5 \times (555+5^5)/5 \\
&:= 66/6 \times (((6 \times 6/(6+6))^6) + 6/6) + 6 \\
&:= 77/7 + (77 \times (7 \times (7+7) + 7)) \\
&:= 88 \times (8 \times 8/(8+8) + 88) \\
&:= (9-9/9) \times (9999/9 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8097 &:= ((11-1) \times (11-1-1))^{1+1} - 1 - 1 - 1 \\
&:= ((2 \times 2 \times 22 + 2)^2) - 2/2 - 2 \\
&:= (3^3 \times (3 \times 3 \times 33 + 3)) - 3 \\
&:= 4/4 + ((4+4) \times (4 \times (4^4 - 4) + 4)) \\
&:= 5/5 + (55/5 \times (555+5^5)/5) \\
&:= 666/6 + (((6+6) \times 666) - 6) \\
&:= (77+7)/7 + (77 \times (7 \times (7+7) + 7)) \\
&:= 8/8 + (88 \times (8 \times 8/(8+8) + 88)) \\
&:= 9 \times (9 \times 99 + 9) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8098 &:= ((11-1) \times (11-1-1))^{1+1} - 1 - 1 \\
&:= (2 \times 2 \times 22 + 2^2) - 2 \\
&:= 3/3 + ((3^3 \times (3 \times 3 \times 33 + 3)) - 3) \\
&:= (4+4)/4 + ((4+4) \times (4 \times (4^4 - 4) + 4)) \\
&:= ((5 \times 5 + 5) \times (5 \times 55 - 5)) - (5+5)/5 \\
&:= 6 + (((6+6)/6)^{6+6}) + 6 \times 666 \\
&:= 7 + (((77 \times (7 \times (7+7) + 7)) - 7/7) + 7) \\
&:= 88 + ((8/8+8) \times (888 + ((8+8)/8))) \\
&:= 9 \times (9 \times 99 + 9) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8099 &:= ((11-1) \times (11-1-1))^{1+1} - 1 \\
&:= (2 \times 2 \times 22 + 2^2) - 2/2 \\
&:= 3 \times 33 + ((33/3 + 3 \times 3)^3) \\
&:= 4 + (((4+4) \times (4 \times (4^4 - 4) + 4)) - 4/4) \\
&:= ((5 \times 5 + 5) \times (5 \times 55 - 5)) - 5/5 \\
&:= 6 \times 6 + ((6+6) \times (666 + 6) - 6/6) \\
&:= 7 + ((77 \times (7 \times (7+7) + 7)) + 7) \\
&:= 8 + ((8/8+8) \times (888 + 88/8)) \\
&:= 9 \times (9 \times 99 + 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8100 &:= ((11-1) \times (11-1-1))^{1+1} \\
&:= (2 \times 2 \times 22 + 2)^2 \\
&:= 3^3 \times (3 \times 3 \times 33 + 3) \\
&:= 4 + ((4+4) \times (4 \times (4^4 - 4) + 4)) \\
&:= (5 \times 5 + 5) \times (5 \times 55 - 5) \\
&:= 6 \times 6 + (6+6) \times (666 + 6) \\
&:= (7/7 + 7 + 7) \times (7 \times 77 + 7/7) \\
&:= ((8+8)/8 + 88)^{(8+8)/8} \\
&:= 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8101 &:= ((11-1) \times (11-1-1))^{1+1} + 1 \\
&:= 2/2 + ((2 \times 2 \times 22 + 2)^2) \\
&:= 3/3 + (3^3 \times (3 \times 3 \times 33 + 3)) \\
&:= 4 + (((4+4) \times (4 \times (4^4 - 4) + 4)) + 4/4) \\
&:= 5/5 + ((5 \times 5 + 5) \times (5 \times 55 - 5)) \\
&:= 6 \times 6 + ((6+6) \times (666 + 6) + 6/6) \\
&:= 7 + (((77 \times (7 \times (7+7) + 7)) + ((7+7)/7)) + 7) \\
&:= 8/8 + (((8+8)/8 + 88)^{(8+8)/8}) \\
&:= 9/9 + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8102 &:= ((11-1) \times (11-1-1))^{1+1} + 1 + 1 \\
&:= 2 + ((2 \times 2 \times 22 + 2)^2) \\
&:= 3 + (((33/3 + 3 \times 3)^3) + 3 \times 33) \\
&:= (4+4)/4 \times ((4+4)^4 - 44 - 4/4) \\
&:= (5+5)/5 + ((5 \times 5 + 5) \times (5 \times 55 - 5)) \\
&:= ((6+6) \times 666) + (666 - 6)/6 \\
&:= 7 + ((77 \times (7 \times (7+7) + 7)) + ((77-7)/7)) \\
&:= (8 \times 8 \times 8 \times (8+8)) - ((8+8)/8 + 88) \\
&:= (9+9)/9 + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8103 &:= 111 \times (1 + ((1+11)^{1+1}/(1+1))) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 2/2) \\
&:= 3 + (3^3 \times (3 \times 3 \times 33 + 3)) \\
&:= 444/4 \times (((4^4 + 4)/4 + 4) + 4) \\
&:= 5 + (((5 \times 5 + 5) \times (5 \times 55 - 5)) - ((5+5)/5)) \\
&:= 666/6 + ((6+6) \times 666) \\
&:= 7 + ((77 \times (7 \times (7+7) + 7)) + (77/7)) \\
&:= 888/8 \times ((8/8 + 8 \times 8) + 8) \\
&:= ((9+9+9)/9) + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8104 &:= 1 + (111 \times (1 + ((1+11)^{1+1}/(1+1)))) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 2) \\
&:= 3 + ((3^3 \times (3 \times 3 \times 33 + 3)) + 3/3) \\
&:= (4+4) \times (4 \times 4^4 - 44/4) \\
&:= 5 + (((5 \times 5 + 5) \times (5 \times 55 - 5)) - 5/5) \\
&:= ((6+6) \times 666) + (666 + 6)/6 \\
&:= (7 \times (7+7) \times (77+7)) - ((7+7)/7)^7 \\
&:= (8 \times 8 \times 8 \times (8+8)) - 88 \\
&:= 9 \times (9 \times 99 + 9) + ((9 \times 9 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8105 &:= 1 + (1 + (111 \times (1 + ((1+11)^{1+1}/(1+1)))))) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 2/2) + 2) \\
&:= 3 + (((33/3 + 3 \times 3)^3) + 3 \times 33) + 3) \\
&:= 4/4 + ((4+4) \times (4 \times 4^4 - 44/4)) \\
&:= 5 + ((5 \times 5 + 5) \times (5 \times 55 - 5)) \\
&:= 6 + (((6+6) \times (666 + 6) - 6/6) + 6 \times 6) \\
&:= ((7/7 + 77) \times (777/7 - 7)) - 7 \\
&:= 8/8 + ((8 \times 8 \times 8 \times (8+8)) - 88) \\
&:= 9 \times (9 \times 99 + 9) + ((9 \times 9 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8106 &:= (1+1) \times (1 + ((1+1) \times ((1+1)^{11} - (11+11)))) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 2) + 2) \\
&:= 3 + ((3^3 \times (3 \times 3 \times 33 + 3)) + 3) \\
&:= (4+4)/4 \times (((4+4)^4 - 44) + 4/4) \\
&:= 55 + ((5/5 + 5)^5 + 5 \times 55) \\
&:= 6 + ((6+6) \times (666 + 6) + 6 \times 6) \\
&:= 7 + (((77 \times (7 \times (7+7) + 7)) + 7) + 7) \\
&:= (8+8)/8 + ((8 \times 8 \times 8 \times (8+8)) - 88) \\
&:= 9 + (9 \times (9 \times 99 + 9) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8107 &:= 11 \times (11 \times (1 + ((1+1) \times (11 \times (1+1+1)))))) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 2/2) + 2) + 2) \\
&:= 33/3 \times ((3^3 + 3 - 3/3) + 3 \times 3) \\
&:= 44 + ((4 \times (4+4) \times (4^4 - 4)) - 4/4) \\
&:= 55/5 \times (((555 + 5^5) + 5)/5) \\
&:= 66/6 \times (((66/6) \times (66 + 6/6)) \\
&:= 7 + ((7/7 + 7 + 7) \times (7 \times 77 + 7/7)) \\
&:= 8 + (((8/8 + 8) \times (888 + 88/8)) + 8) \\
&:= 9 + (9 \times (9 \times 99 + 9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8108 &:= 1 + (11 \times (11 \times (1 + ((1+1) \times (11 \times (1+1+1)))))) \\
&:= 2 \times ((2 \times (2^{22/2} - 22)) + 2) \\
&:= (3 \times (33 + 3)) + ((33/3 + 3 \times 3)^3) \\
&:= 44 + (4 \times (4+4) \times (4^4 - 4)) \\
&:= 5 + (((5 \times 5 + 5) \times (5 \times 55 - 5)) - ((5+5)/5) + 5) \\
&:= 6 + (((6+6) \times 666) + ((666 - 6)/6)) \\
&:= (((7+7)/7)^{7-7/7+7}) - 77 - 7 \\
&:= 8 + (((8+8)/8 + 88)^{(8+8)/8}) \\
&:= 9 + (9 \times (9 \times 99 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8109 &:= ((11-1) \times (11-1-1))^{1+1} + 11 - 1 - 1 \\
&:= 22/2 + (((2 \times 2 \times 22 + 2)^2) - 2) \\
&:= 3 \times (((3 \times (33 \times 3^3)) + 3^3) + 3) \\
&:= 44 + ((4 \times (4+4) \times (4^4 - 4)) + 4/4) \\
&:= 5 + (((5 \times 5 + 5) \times (5 \times 55 - 5)) - 5/5) + 5) \\
&:= 6 + (((6+6) \times 666) + 666/6) \\
&:= 7 \times 7 \times 7 + (7777 - (77/7)) \\
&:= (8 \times (8 \times 8 \times (8+8) - 8)) - (88/8 + 8) \\
&:= 9 + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8110 &:= ((11-1) \times (11-1-1))^{1+1} + 11 - 1 \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 2 \times (2+2)) \\
&:= 3 + (33/3 \times ((3^3 + 3 - 3/3) + 3 \times 3)) \\
&:= 4 + ((4+4)/4 \times (((4+4)^4 - 44) + 4/4)) \\
&:= 5 + (((5 \times 5 + 5) \times (5 \times 55 - 5)) + 5) \\
&:= 6 + (((6+6) \times 666) + (666 + 6)/6) \\
&:= 7 + (((77 \times (7 \times (7+7) + 7)) + (77/7)) + 7) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) - ((8+8)/8 + 88)) \\
&:= 9 + (9 \times (9 \times 99 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8111 &:= 11 + ((11-1) \times (11-1-1))^{1+1} \\
&:= 22/2 + ((2 \times 2 \times 22 + 2)^2) \\
&:= 33/3 + (3^3 \times (3 \times 3 \times 33 + 3)) \\
&:= (4 \times 4^4 \times (4+4)) - (4 - 4/4)^4 \\
&:= 5 + (((5/5 + 5)^5 + 5 \times 55) + 55) \\
&:= 6 \times 6 + ((6+6) \times (666 + 6) + (66/6)) \\
&:= 7 + ((7 \times (7+7) \times (77+7)) - ((7+7)/7)^7) \\
&:= 8 + (888/8 \times ((8/8 + 8 \times 8) + 8)) \\
&:= 99/9 + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8112 &:= (1+11) \times (((1+1) \times (1+1+11))^{1+1}) \\
&:= 2 \times (2 \times ((2^{22/2} - 22) + 2)) \\
&:= (33 \times (3 \times 3 \times 3^3 + 3)) - 3 - 3 \\
&:= 4 \times ((4 \times 444 - 4) + 4^4) \\
&:= (5 \times 5 + 5/5) \times (5^5 - 5)/(5+5) \\
&:= (6+6) \times ((66 - 6)/6 + 666) \\
&:= (7/7 + 77) \times (777/7 - 7) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) - 88) \\
&:= (99+9)/9 + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8113 &:= 1 + ((1 + 11) \times (((1 + 1) \times (1 + 1 + 11))^{1+1})) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 22/2) \\
&:= 3/3 + ((33 \times (3 \times 3 \times 3^3 + 3)) - (3 + 3)) \\
&:= 4/4 + (4 \times ((4 \times 444 - 4) + 4^4)) \\
&:= 5 \times 5 + ((5^5 - 5)/(5 + 5) + (5/5 + 5)^5) \\
&:= 6 + ((66/6) \times ((66/6) \times (66 + 6/6))) \\
&:= 7 \times 7 \times 7 + (7777 - 7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8 + 8)) - 88) + 8/8) \\
&:= 9 \times (9 \times 99 + 9) + ((99 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8114 &:= (11 \times (1111 - 1)) - ((1 + 1)^{1+11}) \\
&:= 2 + (2 \times (2 \times ((2^{22/2} - 22) + 2))) \\
&:= (33 \times (3 \times 3 \times 3^3 + 3)) - (3/3 + 3) \\
&:= (4 + 4)/4 + (4 \times ((4 \times 444 - 4) + 4^4)) \\
&:= (5 \times (5 \times (5 \times (55 + 5 + 5)))) - 55/5 \\
&:= ((6 + 6) \times 666) + ((666 + 66)/6) \\
&:= 7/7 + ((7777 - 7) + 7 \times 7 \times 7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8 + 8)) - 88) + ((8 + 8)/8)) \\
&:= 9 + (9 \times (9 \times 99 + 9) + ((9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8115 &:= 1 + ((11 \times (1111 - 1)) - ((1 + 1)^{1+11})) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 22/2 + 2) \\
&:= (33 \times (3 \times 3 \times 3^3 + 3)) - 3 \\
&:= 4 + (4 \times 4^4 \times (4 + 4)) - (4 - 4/4)^4 \\
&:= (5 \times (5 \times (5 \times (55 + 5 + 5)))) - 5 - 5 \\
&:= 6 + (((6 + 6) \times 666) + 666/6 + 6) \\
&:= (((7 + 7)/7)^{7-7/7+7}) - 77 \\
&:= 88/8 + ((8 \times 8 \times 8 \times (8 + 8)) - 88) \\
&:= 99 + (9 \times 9 \times 99 - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8116 &:= 1 + (1 + ((11 \times (1111 - 1)) - ((1 + 1)^{1+11}))) \\
&:= 2^{2+2} + ((2 \times 2 \times 22 + 2)^2) \\
&:= 3/3 + ((33 \times (3 \times 3 \times 3^3 + 3)) - 3) \\
&:= ((4 + 4) \times (4 \times 4^4 - 4)) - 44 \\
&:= 5 + (((5/5 + 5)^5 + 5 \times 55) + 55) + 5 \\
&:= (66 \times ((666/6 + 6) + 6)) - (6 + 6)/6 \\
&:= 77 \times 77 + ((7 + 7 + 7)/7)^7 \\
&:= 8 + (((8 + 8)/8 + 88)^{(8+8)/8}) + 8 \\
&:= 99 + (9 \times 9 \times 99 - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8117 &:= (11 \times ((1 + 1)^{11} - 1)) - ((11^{1+1} - 1)^{1+1}) \\
&:= 2/2 + (((2 \times 2 \times 22 + 2)^2) + 2^{2+2}) \\
&:= (33 \times (3 \times 3 \times 3^3 + 3)) - 3/3 \\
&:= 4/4 + (((4 + 4) \times (4 \times 4^4 - 4)) - 44) \\
&:= 5 + ((5 \times 5 + 5/5) \times (5^5 - 5)/(5 + 5)) \\
&:= (66 \times ((666/6 + 6) + 6)) - 6/6 \\
&:= 7/7 + (((7 + 7 + 7)/7)^7 + 77 \times 77) \\
&:= (8 \times (8 \times 8 \times (8 + 8) - 8)) - 88/8 \\
&:= 99 + (9 \times 9 \times 99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8118 &:= (1 + 1) \times (11 \times ((1 + 1 + 1) \times (1 + (1 + 11)^{1+1}))) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 2^{2+2}) \\
&:= 33 \times (3 \times 3 \times 3^3 + 3) \\
&:= (4 + 4)/4 + (((4 + 4) \times (4 \times 4^4 - 4)) - 44) \\
&:= 55/5 \times (((555 + 5^5) + 5) + 5)/5 \\
&:= 66 \times ((666/6 + 6) + 6) \\
&:= 7 \times 7 \times 7 + (7777 - ((7 + 7)/7)) \\
&:= (8 - 88)/8 + (8 \times (8 \times 8 \times (8 + 8) - 8)) \\
&:= 99 + 9 \times 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8119 &:= 111 + (11 \times ((11 - 1 - 1)^{1+1+1} - 1)) \\
&:= 22 + (((2 \times 2 \times 22 + 2)^2) - (2/2 + 2)) \\
&:= 3/3 + (33 \times (3 \times 3 \times 3^3 + 3)) \\
&:= 4 + ((4 \times 4^4 \times (4 + 4)) - (4 - 4/4)^4) + 4 \\
&:= (5 \times (5 \times (5 \times (55 + 5 + 5)))) - (5/5 + 5) \\
&:= 6/6 + (66 \times ((666/6 + 6) + 6)) \\
&:= 7 \times 7 \times 7 + (7777 - 7/7) \\
&:= (8 \times (8 \times 8 \times (8 + 8) - 8)) - (8/8 + 8) \\
&:= 9/9 + (9 \times 9 \times 99 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8120 &:= (1 + (1 + 11))^{1+1} \times (1 + 111)/(1 + 1) \\
&:= 22 + (((2 \times 2 \times 22 + 2)^2) - 2) \\
&:= 3 + ((33 \times (3 \times 3 \times 3^3 + 3)) - 3/3) \\
&:= 4 + (((4 + 4) \times (4 \times 4^4 - 4)) - 44) \\
&:= (5 \times (5 \times (5 \times (55 + 5 + 5)))) - 5 \\
&:= ((6 + 6)/6) \times (((6 + 6)/6)^{6+6}) - 6 \times 6 \\
&:= 7 \times 7 \times 7 + 7777 \\
&:= (8 \times (8 \times 8 \times (8 + 8) - 8)) - 8 \\
&:= 9 + (9 \times (9 \times 99 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8121 &:= 11^{1+1} + (((1 + 1) \times (11 - 1))^{1+1+1}) \\
&:= 22 + (((2 \times 2 \times 22 + 2)^2) - 2/2) \\
&:= 3 + (33 \times (3 \times 3 \times 3^3 + 3)) \\
&:= ((4/4 + 4)^4 \times ((4/4 + 4 + 4) + 4)) - 4 \\
&:= 5/5 + ((5 \times (5 \times (5 \times (55 + 5 + 5)))) - 5) \\
&:= 6 \times 6 + ((66/6) \times (((6 \times 6)/(6 + 6))^6) + 6) \\
&:= 7/7 + (7777 + 7 \times 7 \times 7) \\
&:= 8/8 + ((8 \times (8 \times 8 \times (8 + 8) - 8)) - 8) \\
&:= 9 \times 9 \times 99 + (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8122 &:= 1 + (11^{1+1} + (((1 + 1) \times (11 - 1))^{1+1+1})) \\
&:= 22 + ((2 \times 2 \times 22 + 2)^2) \\
&:= 3 + ((33 \times (3 \times 3 \times 3^3 + 3)) + 3/3) \\
&:= (4 \times (4 + 4) - 4/4) \times (((4 + 4)/4 + 4^4) + 4) \\
&:= 5 + (((5 \times 5 + 5/5) \times (5^5 - 5)/(5 + 5)) + 5) \\
&:= 66 + (((6 + 6) \times 666) + ((6 + 6)/6)^6) \\
&:= 7 + (((7 + 7)/7)^{7-7/7+7}) - 77 \\
&:= (8 + 8)/8 + ((8 \times (8 \times 8 \times (8 + 8) - 8)) - 8) \\
&:= 9 \times 9 \times 99 + (((999 + 9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8123 &:= 11 + ((1 + 11) \times (((1 + 1) \times (1 + 1 + 11))^{1+1})) \\
&:= 22 + (((2 \times 2 \times 22 + 2)^2) + 2/2) \\
&:= 3 + (((33 \times (3 \times 3 \times 3^3 + 3)) - 3/3) + 3) \\
&:= (4 \times 4^4 \times (4 + 4)) - ((4^4 + 4)/4 + 4) \\
&:= (5 \times (5 \times (5 \times (55 + 5 + 5)))) - (5 + 5)/5 \\
&:= ((6 + 6) \times (666 + (66/6))) - 6/6 \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 77 \times 77) \\
&:= 8 + (((8 \times 8 \times 8 \times (8 + 8)) - 88) + (88/8)) \\
&:= 99 + (((9 \times 9 + 9)/(9 + 9)) + 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8124 &:= (1 + 11) \times (1 + (((1 + 1) \times (1 + 1 + 11))^{1+1})) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 22) \\
&:= 3 + ((33 \times (3 \times 3 \times 3^3 + 3)) + 3) \\
&:= (4 \times (4 \times 444 + 4^4)) - 4 \\
&:= (5 \times (5 \times (5 \times (55 + 5 + 5)))) - 5/5 \\
&:= (6 + 6) \times (666 + (66/6)) \\
&:= 7 \times 7 \times 7 + ((7777 - 7) + (77/7)) \\
&:= (8 \times (8 \times 8 \times (8 + 8) - 8)) - 8 \times 8/(8 + 8) \\
&:= 9 + ((9 \times 9 \times 99 - ((9 + 9 + 9)/9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8125 &:= (11 \times 1111) - ((1 + 1)^{1+11}) \\
&:= (22/2 + 2) \times ((2/2 + 2 + 2)^{2+2}) \\
&:= 3 + (((33 \times (3 \times 3 \times 3^3 + 3)) + 3/3) + 3) \\
&:= (4/4 + 4)^4 \times ((4/4 + 4 + 4) + 4) \\
&:= 5 \times (5 \times (5 \times (55 + 5 + 5))) \\
&:= 6/6 + ((6 + 6) \times (666 + (66/6))) \\
&:= 7 + ((7777 - ((7 + 7)/7)) + 7 \times 7 \times 7) \\
&:= 8 + ((8 \times (8 \times 8 \times (8 + 8) - 8)) - (88/8)) \\
&:= 9 + ((9 \times 9 \times 99 - ((9 + 9)/9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8126 &:= 1 + ((11 \times 1111) - ((1 + 1)^{1+11})) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 22) + 2 \\
&:= (3 - 3/3) \times ((3/3 + 3)^{3+3} - 33) \\
&:= (4 \times 4^4 \times (4 + 4)) - ((4^4 + 4 + 4)/4) \\
&:= 5/5 + (5 \times (5 \times (5 \times (55 + 5 + 5)))) \\
&:= (((6 + 6)/6)^{6+6+6}) - 66 \\
&:= 7 + ((7777 - 7/7) + 7 \times 7 \times 7) \\
&:= (8 \times (8 \times 8 \times (8 + 8) - 8)) - (8 + 8)/8 \\
&:= 9 + ((9 \times 9 \times 99 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8127 &:= 1 + (1 + ((11 \times 1111) - ((1 + 1)^{1+11}))) \\
&:= 2 + ((22/2 + 2) \times ((2/2 + 2 + 2)^{2+2})) \\
&:= 3 \times (((3 \times (33 \times 3^3)) + 33) + 3) \\
&:= (4 \times 4^4 \times (4 + 4)) - (4^4 + 4)/4 \\
&:= (5 + 5)/5 + (5 \times (5 \times (5 \times (55 + 5 + 5)))) \\
&:= 6/6 + (((6 + 6)/6)^{6+6+6}) - 66 \\
&:= 7 + (7777 + 7 \times 7 \times 7) \\
&:= (8 \times (8 \times 8 \times (8 + 8) - 8)) - 8/8 \\
&:= 9 + (9 \times 9 \times 99 + 99)
\end{aligned}$$

- 8128 := $(1+1) \times (1 + (((1+1)^{1+11}) - (11 \times (1+1+1))))$
:= $2 \times (2 \times (2^{22/2} - 2^{2+2}))$
:= $(33 - 3/3) \times ((3^{3+3} + 33)/3)$
:= $4 \times (4 \times 444 + 4^4)$
:= $5 + ((5 \times (5 \times (5 \times (55 + 5 + 5)))) - ((5+5)/5))$
:= $((6+6)/6)^6 + (6+6) \times (666+6)$
:= $7 + ((7777 + 7 \times 7 \times 7) + 7/7)$
:= $8 \times (8 \times 8 \times (8+8) - 8)$
:= $9 + ((9 \times 9 \times 99 + 9/9) + 99)$
- 8129 := $11 \times (11 + ((11 - 1 - 1)^{1+1+1} - 1))$
:= $2/2 + (2 \times (2 \times (2^{22/2} - 2^{2+2})))$
:= $33/3 + (33 \times (3 \times 3 \times 3^3 + 3))$
:= $4/4 + (4 \times (4 \times 444 + 4^4))$
:= $5 + ((5 \times (5 \times (5 \times (55 + 5 + 5)))) - 5/5)$
:= $66 + ((6+6) \times (666+6) - 6/6)$
:= $7 + (((((7+7)/7)^{7-7/7+7}) - 77) + 7)$
:= $8/8 + (8 \times (8 \times 8 \times (8+8) - 8))$
:= $99 + (9 \times 9 \times 99 + (99/9))$
- 8130 := $111 + (11 \times (11 - 1 - 1)^{1+1+1})$
:= $2 + (2 \times (2 \times (2^{22/2} - 2^{2+2})))$
:= $(3+3) \times (((33/3)^3 - 3) + 3^3)$
:= $(4+4)/4 + (4 \times (4 \times 444 + 4^4))$
:= $5 + (5 \times (5 \times (5 \times (55 + 5 + 5))))$
:= $66 + (6+6) \times (666+6)$
:= $7 + (((7+7+7)/7)^7 + 77 \times 77) + 7$
:= $(8+8)/8 + (8 \times (8 \times 8 \times (8+8) - 8))$
:= $9 \times 9 \times 99 + 999/9$
- 8131 := $1 + (111 + (11 \times (11 - 1 - 1)^{1+1+1}))$
:= $2 + ((2 \times (2 \times (2^{22/2} - 2^{2+2}))) + 2/2)$
:= $3 + ((33 \times (3+3)^3) + ((3 \times 3 + 3/3)^3))$
:= $4 + (4 \times 4^4 \times (4+4)) - (4^4 + 4)/4$
:= $5 + ((5 \times (5 \times (5 \times (55 + 5 + 5)))) + 5/5)$
:= $66 + ((6+6) \times (666+6) + 6/6)$
:= $7 \times 7 \times 7 + (7777 + (77/7))$
:= $88/8 + ((8 \times (8 \times 8 \times (8+8) - 8)) - 8)$
:= $9 \times 9 \times 99 + ((999+9)/9)$
- 8132 := $(1+1) \times (((1+1)^{1+11}) - ((11-1) \times (1+1+1)))$
:= $2 \times ((2 \times (2^{22/2} - 2^{2+2})) + 2)$
:= $(3 \times ((33/3+3)^3 - 33)) - 3/3$
:= $4 + (4 \times (4 \times 444 + 4^4))$
:= $5 + ((5 \times (5 \times (5 \times (55 + 5 + 5)))) + ((5+5)/5))$
:= $6 + (((6+6)/6)^{6/6+6+6} - 66)$
:= $((7+7) \times (7 \times (77+7) - 7)) - (7+7)/7$
:= $8 \times 8/(8+8) + (8 \times (8 \times 8 \times (8+8) - 8))$
:= $9 \times 9 \times 99 + ((999+9+9)/9)$
- 8133 := $((1+1) \times ((1+1) \times ((1+1)^{11} - (1+11)))) - 11$
:= $22 + (((2 \times 2 \times 22 + 2)^2) + 22/2)$
:= $3 \times ((33/3+3)^3 - 33)$
:= $4 + ((4 \times (4 \times 444 + 4^4)) + 4/4)$
:= $((5 \times 5 + 5/5) \times (5^5 + 5)/(5+5)) - 5$
:= $(6^{6-6/6}) + (66 \times 66/(6+6) - 6)$
:= $((7+7) \times (7 \times (77+7) - 7)) - 7/7$
:= $8 + (((8 \times (8 \times 8 \times (8+8) - 8)) - (88/8)) + 8)$
:= $9 \times 9 \times 99 + (((999+9+9) + 9)/9)$
- 8134 := $1 + (((1+1) \times ((1+1) \times ((1+1)^{11} - (1+11)))) - 11)$
:= $((2+2+2)^2 \times (222+2+2)) - 2$
:= $3/3 + (3 \times ((33/3+3)^3 - 33))$
:= $4 + ((4 \times (4 \times 444 + 4^4)) + (4+4)/4)$
:= $5 + (((5 \times (5 \times (5 \times (55 + 5 + 5)))) - 5/5) + 5)$
:= $((6+6) \times ((666+6) + 6)) - (6+6)/6$
:= $(7+7) \times (7 \times (77+7) - 7)$
:= $8 + ((8 \times (8 \times 8 \times (8+8) - 8)) - ((8+8)/8))$
:= $(99 - 9/9) \times (((9+9)/9) + 9 \times 9)$
- 8135 := $((1+1)^{1+1+11}) - (1 + (1+11)/(1+1))$
:= $((2+2+2)^2 \times (222+2+2)) - 2/2$
:= $((3^3 - 3) \times (333+3+3)) - 3/3$
:= $4 + ((4 \times 4^4 \times (4+4)) - (4^4 + 4)/4) + 4$
:= $5 + ((5 \times (5 \times (5 \times (55 + 5 + 5)))) + 5)$
:= $((6+6) \times ((666+6) + 6)) - 6/6$
:= $7/7 + ((7+7) \times (7 \times (77+7) - 7))$
:= $8 + ((8 \times (8 \times 8 \times (8+8) - 8)) - 8/8)$
:= $9 + (((9 \times 9 \times 99 - 9/9) + 99) + 9)$
- 8136 := $(1+1+111) \times ((1+11)^{1+1}/(1+1))$
:= $(2+2+2)^2 \times (222+2+2)$
:= $(3^3 - 3) \times (333+3+3)$
:= $4 + ((4 \times (4 \times 444 + 4^4)) + 4)$
:= $55/5 + (5 \times (5 \times (5 \times (55 + 5 + 5))))$
:= $(6+6) \times ((666+6) + 6)$
:= $(7+7)/7 + ((7+7) \times (7 \times (77+7) - 7))$
:= $8 + (8 \times (8 \times 8 \times (8+8) - 8))$
:= $9 + ((9 \times 9 \times 99 + 99) + 9)$
- 8137 := $((1+1)^{1+1+11}) - (111-1)/(1+1)$
:= $2/2 + ((2+2+2)^2 \times (222+2+2))$
:= $3/3 + ((3^3 - 3) \times (333+3+3))$
:= $(4 \times 4^4 \times (4+4)) - 44/4 - 44$
:= $((5+5)/5)^{(55+5+5)/5} - 55$
:= $6/6 + ((6+6) \times ((666+6) + 6))$
:= $(7+7+7)/7 + ((7+7) \times (7 \times (77+7) - 7))$
:= $8 + ((8 \times (8 \times 8 \times (8+8) - 8)) + 8/8)$
:= $9 + (((9 \times 9 \times 99 + 9/9) + 99) + 9)$
- 8138 := $1 + (((1+1)^{1+1+11}) - (111-1)/(1+1))$
:= $2 + ((2+2+2)^2 \times (222+2+2))$
:= $(3-3/3) \times ((3/3+3)^{3+3} - 3^3)$
:= $(4+4)/4 \times ((4+4)^4 - (44/4+4 \times 4))$
:= $(5 \times 5 + 5/5) \times (5^5 + 5)/(5+5)$
:= $(6+6)/6 + ((6+6) \times ((666+6) + 6))$
:= $7 + ((7777 + (77/7)) + 7 \times 7 \times 7)$
:= $8 + ((8 \times (8 \times 8 \times (8+8) - 8)) + ((8+8)/8))$
:= $9 + ((9 \times 9 \times 99 + (99/9)) + 99)$
- 8139 := $(11 \times (11 + (11 - 1 - 1)^{1+1+1})) - 1$
:= $(2 \times (2 \times (2^{22/2} - 2)) - 22) - 2/2$
:= $3 + ((3^3 - 3) \times (333 + 3 + 3))$
:= $44/4 + (4 \times (4 \times 444 + 4^4))$
:= $(5 \times (55 \times (5 \times 5 + 5))) - 555/5$
:= $(6^{6-6/6}) + 66 \times 66/(6+6)$
:= $7 + (((7+7) \times (7 \times (77+7) - 7)) - ((7+7)/7))$
:= $88/8 + (8 \times (8 \times 8 \times (8+8) - 8))$
:= $9 + (9 \times 9 \times 99 + 999/9)$
- 8140 := $11 \times (11 + (11 - 1 - 1)^{1+1+1})$
:= $2 \times (2 \times (2^{22/2} - 2) - 22)$
:= $33/3 \times (3^{3+3} + 33/3)$
:= $44 + ((4+4) \times (4 \times (4^4 - 4) + 4))$
:= $55 \times (5 \times (5 \times 5 + 5)) - ((5+5)/5)$
:= $6 + (((6+6) \times ((666+6) + 6)) - ((6+6)/6))$
:= $7 + (((7+7) \times (7 \times (77+7) - 7)) - 7/7)$
:= $((88+8)/8) + (8 \times (8 \times 8 \times (8+8) - 8))$
:= $99/9 \times (9 \times 9 \times 9 + (99/9))$
- 8141 := $1 + (11 \times (11 + (11 - 1 - 1)^{1+1+1}))$
:= $2/2 + (2 \times (2 \times (2^{22/2} - 2) - 22))$
:= $3 + ((3 - 3/3) \times ((3/3 + 3)^{3+3} - 3^3))$
:= $4 + (4 \times 4^4 \times (4+4)) - (44/4 + 44)$
:= $5 + ((5 \times (5 \times (5 \times (55 + 5 + 5)))) + (55/5))$
:= $6 + (((6+6) \times ((666+6) + 6)) - 6/6)$
:= $7 + ((7+7) \times (7 \times (77+7) - 7))$
:= $88 + (((8+8) \times (8 \times 8 \times 8 - 8)) - (88/8))$
:= $9 \times 9 \times 99 + (999+99)/9$
- 8142 := $(1+1) \times (((1+1) \times ((1+1)^{11} - (1+11)))) - 1$
:= $2 + (2 \times (2 \times (2^{22/2} - 2) - 22))$
:= $3 \times (((33/3+3)^3 - 33) + 3)$
:= $(4 \times 44 + 4/4) \times ((4+4)/4 + 44)$
:= $5 + (((5+5)/5)^{(55+5+5)/5} - 55)$
:= $6 + ((6+6) \times ((666+6) + 6))$
:= $7 + (((7+7) \times (7 \times (77+7) - 7)) + 7/7)$
:= $8 + (((8 \times (8 \times 8 \times (8+8) - 8)) - ((8+8)/8)) + 8)$
:= $9 \times 9 \times 99 + ((999+99+9)/9)$

$$\begin{aligned}
\blacktriangleright 8143 &:= ((1+1) \times ((1+1) \times ((1+1)^{11} - (1+11)))) - 1 \\
&:= 222 + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= 3 + (33/3 \times (3^{3+3} + 33/3)) \\
&:= (4 \times 4^4 \times (4+4)) - ((44+4/4) + 4) \\
&:= 5 + ((5 \times 5 + 5/5) \times (5^5 + 5)/(5+5)) \\
&:= 6 + (((6+6) \times ((666+6) + 6)) + 6/6) \\
&:= (((7+7)/7)^{7-7/7+7}) - 7 \times 7 \\
&:= 8 + (((8 \times (8 \times 8 \times (8+8) - 8)) - 8/8) + 8) \\
&:= 9 + ((99-9/9) \times ((9+9)/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8144 &:= (1+1) \times ((1+1) \times ((1+1)^{11} - (1+11))) \\
&:= 2 \times (2^{2 \times (2+2+2)} - (22+2)) \\
&:= 3^3 + ((33 \times (3 \times 3 \times 3^3 + 3)) - 3/3) \\
&:= 4 \times ((4 \times 444 + 4^4) + 4) \\
&:= 5 + ((5 \times (55 \times (5 \times 5 + 5))) - 555/5) \\
&:= 6 + (((6+6) \times ((666+6) + 6)) + ((6+6)/6)) \\
&:= 7/7 + (((7+7)/7)^{7-7/7+7}) - 7 \times 7 \\
&:= 8 + ((8 \times (8 \times 8 \times (8+8) - 8)) + 8) \\
&:= (9-9/9) \times ((999+9/9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8145 &:= 1 + ((1+1) \times ((1+1) \times ((1+1)^{11} - (1+11)))) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) + 222) \\
&:= 3 \times ((3 \times ((33 \times 3^3) + 3)) + 33) \\
&:= 4/4 + (4 \times ((4 \times 444 + 4^4) + 4)) \\
&:= 55 \times 55 + 5 \times (5 - 5/5)^5 \\
&:= 6 + (66 \times 66/(6+6) + (6^{6-6/6})) \\
&:= 77/7 + ((7+7) \times (7 \times (77+7) - 7)) \\
&:= 8 + (((8 \times (8 \times 8 \times (8+8) - 8)) + 8/8) + 8) \\
&:= 9 + (((9 \times 9 \times 99 + 99) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8146 &:= (1+1) \times (((1+1) \times ((1+1)^{11} - 11)) - 1) \\
&:= (2^{22/2+2}) - (2 \times 22 + 2) \\
&:= 3 + ((33/3 \times (3^{3+3} + 33/3)) + 3) \\
&:= (4 \times 4^4 \times (4+4)) - ((4+4)/4 + 44) \\
&:= (5/5 + 5)^5 + ((5 \times (5 \times (5+5+5))) - 5) \\
&:= ((66-6)/6) + ((6+6) \times ((666+6) + 6)) \\
&:= (77+7)/7 + ((7+7) \times (7 \times (77+7) - 7)) \\
&:= 8 + (((8 \times (8 \times 8 \times (8+8) - 8)) + ((8+8)/8)) + 8) \\
&:= 9 + (((9 \times 9 \times 99 + 99) + 99) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8147 &:= ((1+1) \times ((1+1) \times ((1+1)^{11} - 11))) - 1 \\
&:= (2^{22/2+2}) - (2 \times 22 + 2/2) \\
&:= ((3+3) \times ((33/3)^3 + 3^3)) - 3/3 \\
&:= (4 \times 4^4 \times (4+4)) - (44+4/4) \\
&:= (((5-(5+5)/5) + 5) \times ((5-5/5)^5 - 5)) - 5 \\
&:= 66/6 + ((6+6) \times ((666+6) + 6)) \\
&:= ((77+7) \times (7 \times (7+7) - 7/7)) - 7/7 \\
&:= 8 + ((8 \times (8 \times 8 \times (8+8) - 8)) + (88/8)) \\
&:= 9 + (((9 \times 9 \times 99 + 99/9) + 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8148 &:= (1+1) \times ((1+1) \times ((1+1)^{11} - 11)) \\
&:= 2 \times (2^{2 \times (2+2+2)} - 22) \\
&:= (3+3) \times ((33/3)^3 + 3^3) \\
&:= (4 \times 4^4 \times (4+4)) - 44 \\
&:= ((55+5)/5) \times ((5^5 - 5)/5 + 55) \\
&:= 6 + (((6+6) \times ((666+6) + 6)) + 6) \\
&:= (77+7) \times (7 \times (7+7) - 7/7) \\
&:= (8 \times 8 \times 8 \times (8+8)) - (88/((8+8)/8)) \\
&:= 9 + ((9 \times 9 \times 99 + 999/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8149 &:= 1 + ((1+1) \times ((1+1) \times ((1+1)^{11} - 11))) \\
&:= 2/2 + (2 \times (2^{2 \times (2+2+2)} - 22)) \\
&:= 3/3 + ((3+3) \times ((33/3)^3 + 3^3)) \\
&:= 4/4 + (4 \times 4^4 \times (4+4)) - 44 \\
&:= (5 \times ((5 \times (5 \times (55+5+5))) + 5)) - 5/5 \\
&:= 6 + (((6+6) \times ((666+6) + 6)) + 6/6) + 6 \\
&:= 7/7 + ((77+7) \times (7 \times (7+7) - 7/7)) \\
&:= ((8+8) \times (8 \times 8 \times 8 - ((8+8)/8))) - 88/8 \\
&:= 9 + ((99/9) \times (9 \times 9 \times 9 + 99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8150 &:= (1+1) \times (1 + ((1+1) \times ((1+1)^{11} - 11))) \\
&:= 2 + (2 \times (2^{2 \times (2+2+2)} - 22)) \\
&:= (((3 \times (3+3)) + 3)^3) - 3333/3 \\
&:= (4+4)/4 + (4 \times 4^4 \times (4+4)) - 44 \\
&:= 5 \times ((5 \times (5 \times (55+5+5))) + 5) \\
&:= (((6+6)/6)^{6/6+6+6}) - (6 \times 6 + 6) \\
&:= 7 + (((7+7)/7)^{7-7/7+7}) - 7 \times 7 \\
&:= 88 + (((8+8) \times (8 \times 8 \times 8 - 8)) - ((8+8)/8)) \\
&:= 9 + ((999+99)/9 + 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8151 &:= 1 + ((1+1) \times (1 + ((1+1) \times ((1+1)^{11} - 11)))) \\
&:= 2 + ((2 \times (2^{2 \times (2+2+2)} - 22)) + 2/2) \\
&:= 3 \times ((33/3 + 3)^3 - 3^3) \\
&:= 4 + (4 \times 4^4 \times (4+4)) - (44+4/4) \\
&:= (5/5 + 5)^5 + (5 \times (5 \times (5+5+5))) \\
&:= 66/6 \times (((6 \times 6/(6+6))^6) + 6) + 6 \\
&:= 77 + ((77 \times (7 \times (7+7) + 7)) - (77/7)) \\
&:= 88 + (((8+8) \times (8 \times 8 \times 8 - 8)) - 8/8) \\
&:= 99/9 \times ((99+9)/9 + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8152 &:= (1+1) \times ((1+1) \times (1 + (1+1)^{11} - 11)) \\
&:= 2 \times (2^{2 \times (2+2+2)} - 22) + 2 \\
&:= 3/3 + (3 \times ((33/3 + 3)^3 - 3^3)) \\
&:= 4 + (4 \times 4^4 \times (4+4)) - 44 \\
&:= ((5-(5+5)/5) + 5) \times ((5-5/5)^5 - 5) \\
&:= 6 + (((6+6) \times ((666+6) + 6)) + ((66-6)/6)) \\
&:= 7 + (((7+7) \times (7 \times (77+7) - 7)) + (77/7)) \\
&:= 88 + ((8+8) \times (8 \times 8 \times 8 - 8)) \\
&:= (9-9/9) \times ((99/9 + 999) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8153 &:= 1 + ((1+1) \times ((1+1) \times (1 + (1+1)^{11} - 11))) \\
&:= 2/2 + ((2^{22/2+2}) + (2 \times (2-22))) \\
&:= 3 + (((3 \times (3+3)) + 3)^3) - 3333/3 \\
&:= 4 + ((4 \times 4^4 \times (4+4)) - 44) + 4/4 \\
&:= 5 + (((55+5)/5) \times ((5^5 - 5)/5 + 55)) \\
&:= 6 + (((6+6) \times ((666+6) + 6)) + (66/6)) \\
&:= (7 \times (7+7) \times (77+7)) - ((7+7)/7 + 77) \\
&:= 8/8 + (((8+8) \times (8 \times 8 \times 8 - 8)) + 88) \\
&:= 9 + ((9-9/9) \times (((999+9/9) + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8154 &:= (1+1) \times (1 + ((1+1) \times (1 + (1+1)^{11} - 11))) \\
&:= 2 + ((2^{22/2+2}) + (2 \times (2-22))) \\
&:= 3 + (3 \times ((33/3 + 3)^3 - 3^3)) \\
&:= ((4+4) \times (4 \times 4^4 - 4)) - ((4+4)/4 + 4) \\
&:= (55-5/5) \times (5 \times (5 \times 5 + 5) + 5/5) \\
&:= 6 + (((6+6) \times ((666+6) + 6)) + 6) + 6 \\
&:= (7 \times (7+7) \times (77+7)) - 7/7 - 77 \\
&:= 88 + (((8+8) \times (8 \times 8 \times 8 - 8)) + ((8+8)/8)) \\
&:= 9 \times (9+9) + 999 \times (9-9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8155 &:= ((1+1)^{1+1+11}) - (111/(1+1+1)) \\
&:= (2^{22/2+2}) - ((2+2+2)^2 + 2/2) \\
&:= 3 + ((3 \times ((33/3 + 3)^3 - 3^3)) + 3/3) \\
&:= ((4+4) \times (4 \times 4^4 - 4)) - 4/4 - 4 \\
&:= 5 + (5 \times ((5 \times (5 \times (55+5+5))) + 5)) \\
&:= 6 \times 66 + ((6^{6-6/6}) - (66/6 + 6)) \\
&:= (7 \times (7+7) \times (77+7)) - 77 \\
&:= 8 + (((8 \times (8 \times 8 \times (8+8) - 8)) + (88/8)) + 8) \\
&:= (9 \times (9 \times (99+9) - 9)) - ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8156 &:= (1+1) \times ((1+1) \times (1 + (1+1)^{11} - 11))) \\
&:= 2 \times ((2 \times (2^{22/2} + 2)) - 22) \\
&:= (3-3/3) \times ((3/3 + 3)^{3+3} - (3 \times (3+3))) \\
&:= ((4+4) \times (4 \times 4^4 - 4)) - 4 \\
&:= 5 + ((5 \times (5 \times (5+5+5))) + (5/5 + 5)^5) \\
&:= (((6+6)/6)^{6/6+6+6}) - 6 \times 6 \\
&:= 7/7 + ((7 \times (7+7) \times (77+7)) - 77) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) - (88/((8+8)/8))) \\
&:= 9 \times (9 \times 99 + 9) + ((999+9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8157 &:= ((1+1) \times (((1+1)^{1+11}) - (1+11))) - 11 \\
&:= 2/2 + (2 \times ((2 \times (2^{22/2} + 2)) - 22)) \\
&:= 3 + ((3 \times ((33/3 + 3)^3 - 3^3)) + 3) \\
&:= 4/4 + (((4+4) \times (4 \times 4^4 - 4)) - 4) \\
&:= 5 + (((5-(5+5)/5) + 5) \times ((5-5/5)^5 - 5)) \\
&:= 6 + ((66/6) \times (((6 \times 6/(6+6))^6) + 6) + 6) \\
&:= 7 + (((7+7)/7)^{7-7/7+7}) - 7 \times 7 + 7 \\
&:= (8 \times 8 \times 8 \times (8+8)) - (88/8 + 8 + 8 + 8) \\
&:= 9 + (((9 \times 9 \times 99 + 999/9) + 9) + 9)
\end{aligned}$$

- 8158 := $((1+1)^{1+1+11}) - (1+11 \times (1+1+1))$
:= $2 + (2 \times ((2 \times (2^{22/2} + 2)) - 22))$
:= $3 + (((3 \times ((33/3 + 3)^3 - 3^3)) + 3/3) + 3)$
:= $((4+4) \times (4 \times 4^4 - 4)) - (4+4)/4$
:= $5 + (((55+5)/5) \times ((5^5 - 5)/5 + 55)) + 5$
:= $66 + (((6+6)/6)^{6+6}) + 6 \times 666$
:= $7777 + (7 \times (7 \times 7 + 7) - (7/7))$
:= $((8+8)/8) \times (8 \times 8 \times 8 - (8/8 + 8 + 8))$
:= $9 + (((99/9) \times (9 \times 9 \times 9 + (99/9))) + 9)$
- 8159 := $((1+1)^{1+1+11}) - (11 \times (1+1+1))$
:= $(2^{22/2+2}) - (22/2 + 22)$
:= $((3 - 3/3)^{3 \times 3 + 3/3 + 3}) - 33$
:= $((4+4) \times (4 \times 4^4 - 4)) - 4/4$
:= $5 + ((55 - 5/5) \times (5 \times (5 \times 5 + 5) + 5/5))$
:= $6 \times 66 + ((6^{6-6/6}) - (6/6 + 6 + 6))$
:= $77/7 + ((77 + 7) \times (7 \times (7 + 7) - 7/7))$
:= $((8+8) \times (8 \times 8 \times 8 - ((8+8)/8))) - 8/8$
:= $9 \times (9 \times 99 + 9 + 9) - ((99 + 99)/9)$
- 8160 := $1 + (((1+1)^{1+1+11}) - (11 \times (1+1+1)))$
:= $2 \times (2 \times (2^{22/2} - 2 \times (2 + 2)))$
:= $3 \times (((33/3 + 3)^3 - 3^3) + 3)$
:= $(4+4) \times (4 \times 4^4 - 4)$
:= $(5+5+5) \times (555 - (55/5))$
:= $6 \times (((6+6)/6)^6 + 6 \times 6 \times 6 \times 6)$
:= $77 + ((77 \times (7 \times (7 + 7) + 7)) - ((7 + 7)/7))$
:= $(8+8) \times (8 \times 8 \times 8 - ((8+8)/8))$
:= $(9/9 - 9 \times 9) \times (9 - 999/9)$
- 8161 := $((1+1) \times (1 + (((1+1)^{1+11}) - 11))) - 11$
:= $2 + ((2^{22/2+2}) - (22/2 + 22))$
:= $3/3 + (3 \times (((33/3 + 3)^3 - 3^3) + 3))$
:= $4/4 + ((4+4) \times (4 \times 4^4 - 4))$
:= $(5/5 + 5)^5 + (55 \times ((5+5)/5 + 5))$
:= $6 \times 66 + ((6^{6-6/6}) - (66/6))$
:= $77 + ((77 \times (7 \times (7 + 7) + 7)) - 7/7)$
:= $8/8 + ((8+8) \times (8 \times 8 \times 8 - ((8+8)/8)))$
:= $9 \times (9 \times 99 + 9 + 9) - (99/9 + 9)$
- 8162 := $(1+1) \times (((1+1) \times ((1+1)^{11} - (1+1))) - 11)$
:= $(2 \times 2 \times (2^{22/2} - 2)) - 22$
:= $(3+3) \times 3^3 + ((33/3 + 3 \times 3)^3)$
:= $(4+4)/4 + ((4+4) \times (4 \times 4^4 - 4))$
:= $5 \times 55 + (555/5 + (5/5 + 5)^5)$
:= $6 + (((6+6)/6)^{6/6+6+6}) - 6 \times 6$
:= $77 + (77 \times (7 \times (7 + 7) + 7))$
:= $(8+8)/8 + ((8+8) \times (8 \times 8 \times 8 - ((8+8)/8)))$
:= $9 \times (999 - 9 \times 9) - (9/9 + 99)$
- 8163 := $1 + ((1+1) \times (((1+1) \times ((1+1)^{11} - (1+1))) - 11))$
:= $2/2 + ((2 \times 2 \times (2^{22/2} - 2)) - 22)$
:= $3 \times ((3^3 \times (3 \times 33 + 3)) - 33)$
:= $4 + (((4+4) \times (4 \times 4^4 - 4)) - 4/4)$
:= $5 \times 5 + ((5 \times 5 + 5/5) \times (5^5 + 5)/(5 + 5))$
:= $6 + (((66/6) \times (((6 \times 6/(6+6))^6) + 6) + 6)) + 6$
:= $7/7 + ((77 \times (7 \times (7 + 7) + 7)) + 77)$
:= $(8/8 + 8) \times ((888 + 88/8) + 8)$
:= $9 \times (999 - 9 \times 9) - 99$
- 8164 := $(1+1) \times (((1+1)^{1+11}) - (1 + (1+1+11)))$
:= $2 + ((2 \times 2 \times (2^{22/2} - 2)) - 22)$
:= $3/3 + (3 \times ((3^3 \times (3 \times 33 + 3)) - 33))$
:= $4 + ((4+4) \times (4 \times 4^4 - 4))$
:= $(5 \times 5 + 5/5) \times ((5^5 + 5)/(5 + 5) + 5/5)$
:= $6 \times 66 + ((6^{6-6/6}) - ((6+6)/6 + 6))$
:= $77 + ((77 \times (7 \times (7 + 7) + 7)) + ((7 + 7)/7))$
:= $8 \times 8 + (((8+8)/8 + 88)^{(8+8)/8})$
:= $9/9 + (9 \times (999 - 9 \times 9) - 99)$
- 8165 := $((1+1)^{1+1+11}) - (1+1+1)^{1+1+1}$
:= $(2^{22/2+2}) - (((22 + 2/2) + 2) + 2)$
:= $((3 - 3/3)^{3 \times 3 + 3/3 + 3}) - 3^3$
:= $4 + (((4+4) \times (4 \times 4^4 - 4)) + 4/4)$
:= $5 + ((5+5+5) \times (555 - (55/5)))$
:= $6 \times 66 + ((6^{6-6/6}) - (6/6 + 6))$
:= $7 \times 7 + (((7+7+7)/7)^7 + 77 \times 77)$
:= $(8 \times 8 \times 8 + (8+8)) - (88/8 + 8 + 8)$
:= $(9+9)/9 + (9 \times (999 - 9 \times 9) - 99)$
- 8166 := $(1+1) \times (((1+1)^{1+11}) - (1+1+11))$
:= $(2^{22/2+2}) - 22 - 2 - 2$
:= $(3+3) \times (((33/3)^3 + 3^3) + 3)$
:= $4 + (((4+4) \times (4 \times 4^4 - 4)) + (4+4)/4)$
:= $5 + ((55 \times ((5+5)/5 + 5)) + (5/5 + 5)^5)$
:= $6 \times 66 + ((6^{6-6/6}) - 6)$
:= $77/7 + ((7 \times (7 + 7) \times (77 + 7)) - 77)$
:= $(8 - 88)/8 + ((8+8) \times (8 \times 8 \times 8 - 8/8))$
:= $9 + (((9 \times 9 \times 99 + 999/9) + 9) + 9)$
- 8167 := $(1+1) \times (((1+1)^{1+11}) - (1+11)) - 1$
:= $(2^{22/2+2}) - ((22 + 2/2) + 2)$
:= $3^3 + (33/3 \times (3^{3+3} + 33/3))$
:= $4 + (((4+4) \times (4 \times 4^4 - 4)) - 4/4) + 4$
:= $((5+5)/5)^{(55+5+5)/5} - 5 \times 5$
:= $6/6 + (((6^{6-6/6}) - 6) + 6 \times 66)$
:= $7777 + (7 \times (7 \times 7 + 7) - ((7+7)/7))$
:= $(8 \times 8 \times 8 + (8+8)) - (8/8 + 8 + 8 + 8)$
:= $((9/9 - 9) + 9 \times 9) \times ((999 + 9)/9) - 9$
- 8168 := $(1+1) \times (((1+1)^{1+11}) - (1+11))$
:= $(2^{22/2+2}) - 22 - 2$
:= $(3 \times (33/3 + 3)^3) - ((3/3 + 3)^3)$
:= $4 + (((4+4) \times (4 \times 4^4 - 4)) + 4)$
:= $5 + (((5 \times 5 + 5/5) \times (5^5 + 5)/(5 + 5)) + 5 \times 5)$
:= $((6+6)/6) \times (((6+6)/6)^{6+6}) - (6+6)$
:= $7777 + (7 \times (7 \times 7 + 7) - 7/7)$
:= $(8 \times 8 \times 8 + (8+8)) - 8 - 8 - 8$
:= $(9 - 9/9) \times ((9999/9 - 99) + 9)$
- 8169 := $((1+1) \times (((1+1)^{1+11}) - 11)) - 1$
:= $(2^{22/2+2}) - 22 - 2/2$
:= $3 + ((3+3) \times (((33/3)^3 + 3^3) + 3))$
:= $4 + (((4+4) \times (4 \times 4^4 - 4)) + 4/4) + 4$
:= $(5 - 5/5)^5 + ((55 \times (5 \times 5 \times 5 + 5)) - 5)$
:= $66 + (((6+6) \times 666) + 666/6)$
:= $7777 + 7 \times (7 \times 7 + 7)$
:= $8/8 + ((8 \times 8 \times 8 + (8+8)) - (8+8+8))$
:= $9 + ((9/9 - 9 \times 9) \times (9 - 999/9))$
- 8170 := $(1+1) \times (((1+1)^{1+11}) - 11)$
:= $(2^{22/2+2}) - 22$
:= $(33/3 + 3^3) \times ((3+3)^3 - 3/3)$
:= $(4+4)/4 \times ((4+4)^4 - 44/4)$
:= $(5 \times ((55 \times (5 \times 5 + 5)) - 5)) - 55$
:= $6 \times 66 + ((6^{6-6/6}) - ((6+6)/6))$
:= $7/7 + (7777 + 7 \times (7 \times 7 + 7))$
:= $((8+8)/8) \times (8 \times 8 \times 8 - (88/8))$
:= $9 \times (9 \times 99 + 9 + 9) - 99/9$
- 8171 := $1 + ((1+1) \times (((1+1)^{1+11}) - 11))$
:= $2/2 + ((2^{22/2+2}) - 22)$
:= $3 + ((3 \times (33/3 + 3)^3) - ((3/3 + 3)^3))$
:= $44/4 + ((4+4) \times (4 \times 4^4 - 4))$
:= $(5/5 + 5)^5 + (5 \times (5 \times 5 + 55) - 5)$
:= $6 \times 66 + ((6^{6-6/6}) - 6/6)$
:= $((7+7)/7)^{7-7/7+7} - (7+7+7)$
:= $8 + ((8/8 + 8) \times ((888 + 88/8) + 8))$
:= $9 \times (9 \times 99 + 9 + 9) - 9/9 - 9$
- 8172 := $(1+1) \times (1 + (((1+1)^{1+11}) - 11))$
:= $2 + ((2^{22/2+2}) - 22)$
:= $(3 \times 3 + 3) \times (3 \times (3+3)^3 + 33)$
:= $(4 \times (4^4 \times (4+4) - 4)) - 4$
:= $(5 - 5/5) \times (((5+5)/5)^{55/5} - 5)$
:= $6 \times (6 \times 6 \times 6 \times 6 + 66)$
:= $(7 \times ((7+7) \times (77 + 7) - 7)) - 77/7$
:= $(8 \times 8 \times 8 + (8+8)) - ((88 + 8)/8 + 8)$
:= $9 \times (9 \times 99 + 9 + 9) - 9$

$$\begin{aligned}
\blacktriangleright 8173 &:= 1 + ((1+1) \times (1 + (((1+1)^{1+11}) - 11))) \\
&:= 2 + (((2^{22/2+2}) - 22) + 2/2) \\
&:= 33/3 \times ((3^{3+3} + 33/3) + 3) \\
&:= 4/4 + ((4 \times (4^4 \times (4+4) - 4)) - 4) \\
&:= ((5+5+5) \times (555 - 5 - 5)) - (5+5)/5 \\
&:= 6/6 + ((6^{6-6/6}) + 6 \times 66) \\
&:= 77 + ((77 \times (7 \times (7+7) + 7)) + (77/7)) \\
&:= (8 \times 8 \times 8 \times (8+8)) - (88/8+8) \\
&:= 9/9 + (9 \times (9 \times 99 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8174 &:= (1+1) \times (1 + (1 + (((1+1)^{1+11}) - 11))) \\
&:= 2 + (((2^{22/2+2}) - 22) + 2) \\
&:= (3 - 3/3) \times ((3/3 + 3)^{3+3} - 3 \times 3) \\
&:= (4 \times (4^4 \times (4+4) - 4)) - (4+4)/4 \\
&:= (5 - 5/5)^5 + (55 \times (5 \times 5 \times 5 + 5)) \\
&:= (6+6)/6 + (((6^{6-6/6}) + 6 \times 66) + 6/6) \\
&:= (((7+7)/7)^{7-7/7+7}) - (77/7+7) \\
&:= ((8+8)/8) \times (8 \times 8 \times 8 - (8/8+8)) \\
&:= (9+9)/9 + (9 \times (9 \times 99 + 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8175 &:= 1 + ((1+1) \times (1 + (1 + (((1+1)^{1+11}) - 11)))) \\
&:= (2^{22/2+2}) - (2^{2+2} + 2/2) \\
&:= 3 + ((3 \times 3 + 3) \times (3 \times (3+3)^3 + 33)) \\
&:= (4 \times (4^4 \times (4+4) - 4)) - 4/4 \\
&:= (5+5+5) \times (555 - 5 - 5) \\
&:= 666/6 + (6+6) \times (666+6) \\
&:= (7/7 + 7 + 7) \times ((7 \times 77 - 7/7) + 7) \\
&:= (8 \times 8 \times 8 \times (8+8)) - (8/8+8+8) \\
&:= 999/9 + ((9 - 9/9) \times (999 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8176 &:= (1+1) \times (1 + (1 + (1 + (((1+1)^{1+11}) - 11)))) \\
&:= 2 \times (2 \times (2^{22/2} - (2+2))) \\
&:= (((3+3)^3 + 3)/3) \times ((333+3)/3) \\
&:= 4 \times (4^4 \times (4+4) - 4) \\
&:= (5/5+5)^5 + 5 \times (5 \times 5 + 55) \\
&:= (66+6/6+6) \times (666+6)/6 \\
&:= (7 \times ((7+7) \times (77+7) - 7)) - 7 \\
&:= (8+8) \times (8 \times 8 \times 8 - 8/8) \\
&:= ((9/9 - 9) + 9 \times 9) \times ((999+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8177 &:= ((1+1) \times ((1+1) \times ((1+1)^{11} - 1))) - 11 \\
&:= 2/2 + (2 \times (2 \times (2^{22/2} - (2+2)))) \\
&:= 3 + ((3 - 3/3) \times ((3/3 + 3)^{3+3} - 3 \times 3)) \\
&:= 4/4 + (4 \times (4^4 \times (4+4) - 4)) \\
&:= (55+5+5)/5 \times ((5^5 - 5)/5 + 5) \\
&:= 6 + (((6^{6-6/6}) - 6/6) + 6 \times 66) \\
&:= 7/7 + ((7 \times ((7+7) \times (77+7) - 7)) - 7) \\
&:= 8/8 + ((8+8) \times (8 \times 8 \times 8 - 8/8)) \\
&:= ((9 - 9 \times 9)/(9+9)) + 9 \times (9 \times 99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8178 &:= ((1+1)^{1+1+11}) - 1 - 1 - 1 - 11 \\
&:= 2 + (2 \times (2 \times (2^{22/2} - (2+2)))) \\
&:= 3 \times ((33/3 + 3)^3 - (3 \times (3+3))) \\
&:= (4+4)/4 + (4 \times (4^4 \times (4+4) - 4)) \\
&:= (5/5+5) \times (5 \times 5 \times 55 - ((55+5)/5)) \\
&:= 6 + ((6^{6-6/6}) + 6 \times 66) \\
&:= (((7+7)/7)^{7-7/7+7}) - (7+7) \\
&:= (8+8)/8 + ((8+8) \times (8 \times 8 \times 8 - 8/8)) \\
&:= 9 \times (9 \times 99 + 9 + 9) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8179 &:= ((1+1)^{1+1+11}) - 1 - 1 - 11 \\
&:= (2^{22/2+2}) - (22/2 + 2) \\
&:= 3 + (((3+3)^3 + 3)/3) \times ((333+3)/3) \\
&:= 4 + ((4 \times (4^4 \times (4+4) - 4)) - 4/4) \\
&:= 5 + ((55 \times (5 \times 5 \times 5 + 5)) + (5 - 5/5)^5) \\
&:= 6 + (((6^{6-6/6}) + 6 \times 66) + 6/6) \\
&:= 7 + ((7 \times ((7+7) \times (77+7) - 7)) - (77/7)) \\
&:= (8 \times 8 \times 8 \times (8+8)) - (88+8+8)/8 \\
&:= 9 \times (9 \times 99 + 9 + 9) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8180 &:= ((1+1)^{1+1+11}) - 1 - 11 \\
&:= 2 \times (2 \times (2^{22/2} - 2) - 2) \\
&:= (3 - 3/3) \times ((3/3 + 3)^{3+3} - (3+3)) \\
&:= 4 + (4 \times (4^4 \times (4+4) - 4)) \\
&:= 5 + ((5+5+5) \times (555 - 5 - 5)) \\
&:= ((6+6)/6) \times (((6+6)/6)^{6+6}) - 6 \\
&:= 77/7 + (7777 + 7 \times (7 \times 7 + 7)) \\
&:= (8 \times 8 \times 8 \times (8+8)) - (88+8)/8 \\
&:= 9 \times (9 \times 99 + 9 + 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8181 &:= ((1+1)^{1+1+11}) - 11 \\
&:= (2^{22/2+2}) - 22/2 \\
&:= 3^3 \times ((3 \times 3 \times 33 + 3) + 3) \\
&:= (4 \times 4^4 \times (4+4)) - 44/4 \\
&:= 5 + (5 \times (5 \times 5 + 55) + (5/5+5)^5) \\
&:= (((6+6)/6)^{6/6+6+6}) - 66/6 \\
&:= (((7+7)/7)^{7-7/7+7}) - 77/7 \\
&:= (8 \times 8 \times 8 \times (8+8)) - 88/8 \\
&:= 9 \times (9 \times 99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8182 &:= 1 + (((1+1)^{1+1+11}) - 11) \\
&:= (2 \times 2 \times (2^{22/2} - 2)) - 2 \\
&:= 3/3 + (3^3 \times ((3 \times 3 \times 33 + 3) + 3)) \\
&:= (4+4)/4 \times ((4+4)^4 - (4/4+4)) \\
&:= (5+5)/5 \times ((5 - 5/5)^{5/5+5} - 5) \\
&:= 6 + ((66+6/6+6) \times (666+6)/6) \\
&:= (7 \times ((7+7) \times (77+7) - 7)) - 7/7 \\
&:= (8 - 88)/8 + (8 \times 8 \times 8 \times (8+8)) \\
&:= 9/9 + 9 \times (9 \times 99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8183 &:= 1 + (1 + (((1+1)^{1+1+11}) - 11)) \\
&:= 2 + ((2^{22/2+2}) - 22/2) \\
&:= ((3+3) \times ((33/3)^3 + 33)) - 3/3 \\
&:= (4 \times 4^4 \times (4+4)) - (4/4+4+4) \\
&:= 5 + ((5/5+5) \times (5 \times 5 \times 55 - ((55+5)/5))) \\
&:= 6 \times 66 + ((6^{6-6/6}) + (66/6)) \\
&:= 7 \times ((7+7) \times (77+7) - 7) \\
&:= (8 \times 8 \times 8 \times (8+8)) - (8/8+8) \\
&:= (9+9)/9 + 9 \times (9 \times 99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8184 &:= (1+1) \times ((1+1) \times ((1+1)^{11} - (1+1))) \\
&:= 2 \times 2 \times (2^{22/2} - 2) \\
&:= (3+3) \times ((33/3)^3 + 33) \\
&:= (4+4) \times (4 \times 4^4 - 4/4) \\
&:= (5/5+5) \times (5 \times 5 \times 55 - (55/5)) \\
&:= 6 + (((6^{6-6/6}) + 6 \times 66) + 6) \\
&:= 7/7 + (7 \times ((7+7) \times (77+7) - 7)) \\
&:= (8 \times 8 \times 8 \times (8+8)) - 8 \\
&:= ((9+9+9)/9) + 9 \times (9 \times 99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8185 &:= 1 + ((1+1) \times ((1+1) \times ((1+1)^{11} - (1+1)))) \\
&:= 2/2 + (2 \times 2 \times (2^{22/2} - 2)) \\
&:= 3/3 + ((3+3) \times ((33/3)^3 + 33)) \\
&:= 4 + (4 \times 4^4 \times (4+4)) - 44/4 \\
&:= 5 + (((5+5+5) \times (555 - 5 - 5)) + 5) \\
&:= (((6+6)/6)^{6/6+6+6}) - 6/6 - 6 \\
&:= (((7+7)/7)^{7-7/7+7}) - 7 \\
&:= 8/8 + ((8 \times 8 \times 8 \times (8+8)) - 8) \\
&:= 9 + (((9/9 - 9) + 9 \times 9) \times ((999+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8186 &:= (1+1) \times (((1+1)^{1+11}) - (1+1+1)) \\
&:= 2 + (2 \times 2 \times (2^{22/2} - 2)) \\
&:= (3 - 3/3) \times ((3/3 + 3)^{3+3} - 3) \\
&:= (4+4)/4 \times (((4+4)^4 - 4) + 4/4) \\
&:= 5 + ((5 \times (5 \times 5 + 55) + (5/5+5)^5) + 5) \\
&:= (((6+6)/6)^{6/6+6+6}) - 6 \\
&:= 7/7 + (((7+7)/7)^{7-7/7+7}) - 7 \\
&:= (8+8)/8 + ((8 \times 8 \times 8 \times (8+8)) - 8) \\
&:= ((9 \times 9 + 9)/(9+9)) + 9 \times (9 \times 99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8187 &:= ((1+1) \times ((1+1) \times ((1+1)^{11} - 1))) - 1 \\
&:= (2^{22/2+2}) - 2/2 - 2 - 2 \\
&:= 3 + ((3+3) \times ((33/3)^3 + 33)) \\
&:= (4 \times 4^4 \times (4+4)) - 4/4 - 4 \\
&:= ((5+5)/5)^{(55+5+5)/5} - 5 \\
&:= 6/6 + (((6+6)/6)^{6/6+6+6}) - 6 \\
&:= (7+7)/7 + (((7+7)/7)^{7-7/7+7}) - 7 \\
&:= 88/8 + ((8+8) \times (8 \times 8 \times 8 - 8/8)) \\
&:= 9 + (9 \times (9 \times 99 + 9 + 9) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8188 &:= (1+1) \times ((1+1) \times ((1+1)^{11} - 1)) \\
&:= 2 \times (2^{2 \times (2+2+2)} - 2) \\
&:= 3 + (((3+3) \times ((33/3)^3 + 33)) + 3/3) \\
&:= (4 \times 4^4 \times (4+4)) - 4 \\
&:= 5/5 + (((5+5)/5)^{(55+5+5)/5} - 5) \\
&:= (6+6)/6 + (((6+6)/6)^{6/6+6+6} - 6) \\
&:= 7 + (((7+7)/7)^{7-7/7+7} - (77/7)) \\
&:= (8 \times 8 \times 8 \times (8+8)) - 8 \times 8/(8+8) \\
&:= 9 + (9 \times (9 \times 99 + 9 + 9) - (9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8189 &:= ((1+1)^{1+1+11}) - 1 - 1 - 1 \\
&:= (2^{22/2+2}) - 2/2 - 2 \\
&:= ((3-3/3)^{3 \times 3+3/3+3}) - 3 \\
&:= 4/4 + (4 \times 4^4 \times (4+4)) - 4 \\
&:= 5 + ((5/5+5) \times (5 \times 5 \times 55 - (55/5))) \\
&:= 6 + (((6^{6-6/6}) + 6 \times 66) + (66/6)) \\
&:= 7 + ((7 \times ((7+7) \times (77+7) - 7)) - 7/7) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) - (88/8)) \\
&:= 9 + (9 \times (9 \times 99 + 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8190 &:= (1+1) \times (((1+1)^{1+11}) - 1) \\
&:= (2^{22/2+2}) - 2 \\
&:= (3^3 + 3) \times ((3 \times 3 \times (3^3 + 3)) + 3) \\
&:= (4+4)/4 \times ((4+4)^4 - 4/4) \\
&:= 5^5 + (5 \times (5 - 5/5)^5 - 55) \\
&:= (6/6 + 6 + 6) \times (666 - 6 \times 6) \\
&:= 7 + (7 \times ((7+7) \times (77+7) - 7)) \\
&:= (8 \times 8 \times 8 \times (8+8)) - (8+8)/8 \\
&:= 9 + 9 \times (9 \times 99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8191 &:= ((1+1)^{1+1+11}) - 1 \\
&:= (2^{22/2+2}) - 2/2 \\
&:= ((3-3/3)^{3 \times 3+3/3+3}) - 3/3 \\
&:= (4 \times 4^4 \times (4+4)) - 4/4 \\
&:= ((5+5)/5)^{(55+5+5)/5} - 5/5 \\
&:= (((6+6)/6)^{6/6+6+6} - 6/6) \\
&:= (((7+7)/7)^{7-7/7+7} - 7/7) \\
&:= (8 \times 8 \times 8 \times (8+8)) - 8/8 \\
&:= 9 + (9 \times (9 \times 99 + 9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8192 &:= (1+1)^{1+1+11} \\
&:= 2^{22/2+2} \\
&:= (3-3/3)^{3 \times 3+3/3+3} \\
&:= 4 \times 4^4 \times (4+4) \\
&:= ((5+5)/5)^{(55+5+5)/5} \\
&:= ((6+6)/6)^{6/6+6+6} \\
&:= ((7+7)/7)^{7-7/7+7} \\
&:= 8 \times 8 \times 8 \times (8+8) \\
&:= ((9+9)/9)^{(99+9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8193 &:= 1 + ((1+1)^{1+1+11}) \\
&:= 2/2 + (2^{22/2+2}) \\
&:= 3 + ((3^3 + 3) \times ((3 \times 3 \times (3^3 + 3)) + 3)) \\
&:= 4/4 + (4 \times 4^4 \times (4+4)) \\
&:= 5/5 + ((5+5)/5)^{(55+5+5)/5} \\
&:= 6/6 + (((6+6)/6)^{6/6+6+6}) \\
&:= 7/7 + (((7+7)/7)^{7-7/7+7}) \\
&:= 8/8 + (8 \times 8 \times 8 \times (8+8)) \\
&:= 9/9 + (((9+9)/9)^{(99+9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8194 &:= 1 + (1 + ((1+1)^{1+1+11})) \\
&:= 2 + (2^{22/2+2}) \\
&:= (3-3/3) \times ((3/3+3)^{3+3} + 3/3) \\
&:= (4+4)/4 + (4 \times 4^4 \times (4+4)) \\
&:= (5 \times (55 \times (5 \times 5 + 5))) - (55 + 5/5) \\
&:= (6+6)/6 + (((6+6)/6)^{6/6+6+6}) \\
&:= (7+7)/7 + (((7+7)/7)^{7-7/7+7}) \\
&:= (8+8)/8 + (8 \times 8 \times 8 \times (8+8)) \\
&:= (9+9)/9 + (((9+9)/9)^{(99+9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8195 &:= 1 + (1 + (1 + ((1+1)^{1+1+11}))) \\
&:= 2 + ((2^{22/2+2}) + 2/2) \\
&:= 3 + ((3-3/3)^{3 \times 3+3/3+3}) \\
&:= 4 + (4 \times 4^4 \times (4+4)) - 4/4 \\
&:= 55 \times (5 \times (5 \times 5 + 5) - 5/5) \\
&:= (6 \times 6/(6+6)) + (((6+6)/6)^{6/6+6+6}) \\
&:= (77+7)/7 + (7 \times ((7+7) \times (77+7) - 7)) \\
&:= 88/8 + ((8 \times 8 \times 8 \times (8+8)) - 8) \\
&:= 99/9 \times (((9 \times 9 \times 9 - ((9+9)/9)) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8196 &:= (1+1) \times (1 + (1 + ((1+1)^{1+1+11}))) \\
&:= 2 + ((2^{22/2+2}) + 2) \\
&:= 3 \times ((33/3+3)^3 - (3 \times 3 + 3)) \\
&:= 4 + (4 \times 4^4 \times (4+4)) \\
&:= 5/5 + (55 \times (5 \times (5 \times 5 + 5) - 5/5)) \\
&:= (6+6) \times ((666 + (66/6)) + 6) \\
&:= 777/7 + (77 \times (7 \times (7+7) + 7)) \\
&:= 8 \times 8/(8+8) + (8 \times 8 \times 8 \times (8+8)) \\
&:= 99 + (9 \times (9 \times 99 + 9) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8197 &:= 1 + ((1+1) \times (1 + (1 + ((1+1)^{1+1+11})))) \\
&:= 2 + (((2^{22/2+2}) + 2/2) + 2) \\
&:= 3 + ((3-3/3) \times ((3/3+3)^{3+3} + 3/3)) \\
&:= 4 + ((4 \times 4^4 \times (4+4)) + 4/4) \\
&:= 5 + ((5+5)/5)^{(55+5+5)/5} \\
&:= 6 + (((6+6)/6)^{6/6+6+6} - 6/6) \\
&:= 7 + ((7 \times ((7+7) \times (77+7) - 7)) + 7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) - (88/8)) + 8) \\
&:= 99 + (9 \times (9 \times 99 + 9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8198 &:= (1+1) \times (1 + (1 + (1 + ((1+1)^{1+1+11})))) \\
&:= 2 + (((2^{22/2+2}) + 2) + 2) \\
&:= (3-3/3) \times ((3/3+3)^{3+3} + 3) \\
&:= 4 + ((4 \times 4^4 \times (4+4)) + (4+4)/4) \\
&:= 5 + (((5+5)/5)^{(55+5+5)/5} + 5/5) \\
&:= 6 + (((6+6)/6)^{6/6+6+6}) \\
&:= 7 + (((7+7)/7)^{7-7/7+7} - 7/7) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) - ((8+8)/8)) \\
&:= 99 + (9 \times (9 \times 99 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8199 &:= 1 + ((1+1) \times (1 + (1 + (1 + ((1+1)^{1+1+11})))))) \\
&:= (2 \times (2 \times (2^{22/2} + 2))) - 2/2 \\
&:= (3 \times (33/3+3)^3) - 33 \\
&:= 4 + ((4 \times 4^4 \times (4+4)) - 4/4) + 4 \\
&:= (5 \times ((55 \times (5 \times 5 + 5)) - (5+5))) - 5/5 \\
&:= 6 + (((6+6)/6)^{6/6+6+6} + 6/6) \\
&:= 7 + (((7+7)/7)^{7-7/7+7}) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) - 8/8) \\
&:= 99 + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8200 &:= (1+1) \times ((1+1) \times (1 + (1 + (1+1)^{11}))) \\
&:= 2 \times (2 \times (2^{22/2} + 2)) \\
&:= 3/3 + ((3 \times (33/3+3)^3) - 33) \\
&:= 4 + ((4 \times 4^4 \times (4+4)) + 4) \\
&:= 5 \times ((55 \times (5 \times 5 + 5)) - (5+5)) \\
&:= 6 + (((6+6)/6)^{6/6+6+6} + ((6+6)/6)) \\
&:= 7 + (((7+7)/7)^{7-7/7+7} + 7/7) \\
&:= 8 + (8 \times 8 \times 8 \times (8+8)) \\
&:= (9/9 + 9 \times 9) \times (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8201 &:= 11 + ((1+1) \times (((1+1)^{1+1+11}) - 1)) \\
&:= 2/2 + (2 \times (2 \times (2^{22/2} + 2))) \\
&:= 3 + ((3-3/3) \times ((3/3+3)^{3+3} + 3)) \\
&:= 4 + (((4 \times 4^4 \times (4+4)) + 4/4) + 4) \\
&:= 5/5 + (5 \times ((55 \times (5 \times 5 + 5)) - (5+5))) \\
&:= (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) - 6/6 - 6 \\
&:= 7 + ((7 \times ((7+7) \times (77+7) - 7)) + (77/7)) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) + 8/8) \\
&:= 9 + (((9+9)/9)^{(99+9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8202 &:= 11 + (((1+1)^{1+1+11}) - 1) \\
&:= 2 + (2 \times (2 \times (2^{22/2} + 2))) \\
&:= 3 + ((3 \times (33/3+3)^3) - 33) \\
&:= (4+4)/4 \times (((4+4)^4 + 4/4) + 4) \\
&:= 5 + (((5+5)/5)^{(55+5+5)/5} + 5) \\
&:= (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) - 6 \\
&:= ((77-7)/7) + (((7+7)/7)^{7-7/7+7}) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) + ((8+8)/8)) \\
&:= 999/9 + (9 \times (9 \times 99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8203 &:= 11 + ((1+1)^{1+1+11}) \\
&:= 22/2 + (2^{22/2+2}) \\
&:= 3 + (((3 \times (33/3 + 3)^3) - 33) + 3/3) \\
&:= 44/4 + (4 \times 4^4 \times (4+4)) \\
&:= (55 + 5 + 5)/5 \times ((5^5 + 5)/5 + 5) \\
&:= 6/6 + ((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) - 6) \\
&:= 77/7 + (((7+7)/7)^{7-7/7+7}) \\
&:= 88/8 + (8 \times 8 \times 8 \times (8+8)) \\
&:= 99/9 + (((9+9)/9)^{(99+9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8204 &:= 1 + (11 + ((1+1)^{1+1+11})) \\
&:= 2 \times ((2 \times (2^{22/2} + 2)) + 2) \\
&:= (3 - 3/3) \times (((3/3 + 3)^{3+3} + 3) + 3) \\
&:= (4 \times (4^4 \times (4+4) + 4)) - 4 \\
&:= 5 + ((5 \times ((55 \times (5 \times 5 + 5)) - (5+5))) - 5/5) \\
&:= 6 + (((6+6)/6)^{6/6+6+6} + 6) \\
&:= (7+7) \times (7 \times (77+7) - ((7+7)/7)) \\
&:= ((88+8)/8) + (8 \times 8 \times 8 \times (8+8)) \\
&:= 9 + ((99/9) \times (((9 \times 9 \times 9 - (9+9)/9) + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8205 &:= 1 + (1 + (11 + ((1+1)^{1+1+11}))) \\
&:= 2 + (2^{22/2+2}) + 22/2 \\
&:= 3 \times ((33/3 + 3)^3 - 3 \times 3) \\
&:= 4/4 + ((4 \times (4^4 \times (4+4) + 4)) - 4) \\
&:= 5 + (5 \times ((55 \times (5 \times 5 + 5)) - (5+5))) \\
&:= 6 + (((6+6)/6)^{6/6+6+6} + 6/6 + 6) \\
&:= (7/7 + 7 + 7) \times ((7 \times 77 + 7/7) + 7) \\
&:= (8 \times 8 \times 8 \times (8+8)) + (88 + 8 + 8)/8 \\
&:= (99 \times (((9+9)/9) + 9 \times 9)) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8206 &:= 1 + (1 + (1 + (11 + ((1+1)^{1+1+11})))) \\
&:= 2 + (2 \times ((2 \times (2^{22/2} + 2)) + 2)) \\
&:= 3/3 + (3 \times ((33/3 + 3)^3 - 3 \times 3)) \\
&:= (4 \times (4^4 \times (4+4) + 4)) - (4+4)/4 \\
&:= 555 + ((5/5 + 5)^5 - 5 \times 5 \times 5) \\
&:= (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) - (6+6)/6 \\
&:= 7 + (((7+7)/7)^{7-7/7+7} + 7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) - ((8+8)/8)) + 8) \\
&:= 99/9 \times (((9 \times 9 \times 9 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8207 &:= 11 + ((1+1) \times (1 + (1 + ((1+1)^{1+1+11})))) \\
&:= 2 + (((2^{22/2+2}) + 22/2) + 2) \\
&:= ((3^3 - 3) \times (333 + 3 \times 3)) - 3/3 \\
&:= (4 \times (4^4 \times (4+4) + 4)) - 4/4 \\
&:= 5 + (((5+5)/5)^{(55+5+5)/5} + 5) + 5) \\
&:= (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) - 6/6 \\
&:= 7 + (((7+7)/7)^{7-7/7+7} + 7/7) + 7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) - 8/8) + 8) \\
&:= 9 + ((9 \times (9 \times 99 + 9) - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8208 &:= 1 + (11 + ((1+1) \times (1 + (1 + ((1+1)^{1+1+11})))))) \\
&:= 2 \times (2 \times ((2^{22/2} + 2) + 2)) \\
&:= (3^3 - 3) \times (333 + 3 \times 3) \\
&:= 4 \times (4^4 \times (4+4) + 4) \\
&:= 5 + ((55 + 5 + 5)/5 \times ((5^5 + 5)/5 + 5)) \\
&:= 6 \times 6 \times (6 \times 6 \times 6 + 6 + 6) \\
&:= (7 - 7/7) \times ((77/7 + 7) \times (77 - 7/7)) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) + 8) \\
&:= 9 + (9 \times (9 \times 99 + 9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8209 &:= 11 + ((1+1) \times (1 + (1 + (1 + ((1+1)^{1+1+11})))))) \\
&:= 2/2 + ((2^{22/2+2}) + 2^{2+2}) \\
&:= 3/3 + ((3^3 - 3) \times (333 + 3 \times 3)) \\
&:= 4/4 + (4 \times (4^4 \times (4+4) + 4)) \\
&:= 5^5 + ((5 \times ((5 - 5/5)^5 - 5)) - (55/5)) \\
&:= 6/6 + (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) \\
&:= (((7+7)/7 + 77) \times (777/7 - 7)) - 7 \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) + 8/8) + 8) \\
&:= 9 + ((9/9 + 9 \times 9) \times (9/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8210 &:= (1+1) \times (11 + ((1+1) \times ((1+1)^{11} - 1))) \\
&:= 2 + (2^{22/2+2}) + 2^{2+2} \\
&:= (3 - 3/3) \times ((3/3 + 3)^{3+3} + 3 \times 3) \\
&:= (4+4)/4 + (4 \times (4^4 \times (4+4) + 4)) \\
&:= 5 + (5 \times ((55 \times (5 \times 5 + 5)) - (5+5))) + 5) \\
&:= 6 + (((6+6)/6)^{6/6+6+6} + 6) + 6) \\
&:= 7 + (((7+7)/7)^{7-7/7+7} + (77/7)) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) + ((8+8)/8)) + 8) \\
&:= 9 + (((9+9)/9)^{(99+9+9)/9} + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8211 &:= ((1+1) \times (11 + ((1+1)^{1+1+11} - 1))) - 1 \\
&:= 22 + ((2^{22/2+2}) - (2/2 + 2)) \\
&:= 3 + ((3^3 - 3) \times (333 + 3 \times 3)) \\
&:= 4 + ((4 \times (4^4 \times (4+4) + 4)) - 4/4) \\
&:= 5 + (((5/5 + 5)^5 - 5 \times 5 \times 5) + 555) \\
&:= (6 \times 6/(6+6)) + (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) \\
&:= 77 + ((7+7) \times (7 \times (77+7) - 7)) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) + (88/8)) \\
&:= 999/9 + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8212 &:= (1+1) \times (11 + (((1+1)^{1+1+11} - 1))) \\
&:= 22 + ((2^{22/2+2}) - 2) \\
&:= (3 \times ((33/3 + 3)^3 - 3)) - 33/3 \\
&:= 4 + (4 \times (4^4 \times (4+4) + 4)) \\
&:= (5 - 5/5) \times (((5+5)/5)^{55/5} + 5) \\
&:= 6 + ((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) - ((6+6)/6)) \\
&:= 7 + ((7/7 + 7 + 7) \times ((7 \times 77 + 7/7) + 7)) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) + ((88+8)/8)) \\
&:= 9 \times (9 \times 99 + 9) + ((999+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8213 &:= ((1+1) \times (11 + ((1+1)^{1+1+11}))) - 1 \\
&:= 22 + ((2^{22/2+2}) - 2/2) \\
&:= (3+3)^3 + (((33/3 + 3 \times 3)^3) - 3) \\
&:= 4 + ((4 \times (4^4 \times (4+4) + 4)) + 4/4) \\
&:= 5^5 + (5 \times (5 - 5/5)^5 - ((5+5)/5)^5) \\
&:= 6 + ((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) - 6/6) \\
&:= 7 + (((7+7)/7)^{7-7/7+7} + 7) + 7) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) + (88 + 8 + 8)/8) \\
&:= 9 \times (9 \times 99 + 9) + ((999 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8214 &:= (1+1) \times (11 + ((1+1)^{1+1+11})) \\
&:= 22 + (2^{22/2+2}) \\
&:= 3 \times ((33/3 + 3)^3 - (3+3)) \\
&:= (4+4)/4 \times (44/4 + (4+4)^4) \\
&:= (5/5 + 5) \times (5 \times 5 \times 55 - (5/5 + 5)) \\
&:= 6 + (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) \\
&:= 777/7 \times (77 - ((7+7+7)/7)) \\
&:= ((8+8)/8) \times (8 \times 8 \times 8 + 8 + 88/8) \\
&:= 999/9 \times (((9+9)/9) - 9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8215 &:= 1 + ((1+1) \times (11 + ((1+1)^{1+1+11}))) \\
&:= 22 + ((2^{22/2+2}) + 2/2) \\
&:= 3/3 + (3 \times ((33/3 + 3)^3 - (3+3))) \\
&:= 4 + (((4 \times (4^4 \times (4+4) + 4)) - 4/4) + 4) \\
&:= 5^5 + ((5 \times ((5 - 5/5)^5 - 5)) - 5) \\
&:= 6 + ((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) + 6/6) \\
&:= ((7 - 77)/7) + ((7 \times (7+7) \times (77+7)) - 7) \\
&:= 8 \times 888 + 8888/8 \\
&:= (99 \times (((9+9)/9) + 9 \times 9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8216 &:= (1+1) \times (1 + (11 + ((1+1)^{1+1+11}))) \\
&:= 2 + ((2^{22/2+2}) + 22) \\
&:= (3+3)^3 + ((33/3 + 3 \times 3)^3) \\
&:= 4 + ((4 \times (4^4 \times (4+4) + 4)) + 4) \\
&:= 5^5 + (((5 \times ((5 - 5/5)^5 - 5)) - 5) + 5/5) \\
&:= ((6+6)/6) \times (((6+6)/6)^{6/6+6} + 6) + 6) \\
&:= ((7+7)/7 + 77) \times (777/7 - 7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) + 8) + 8) \\
&:= (99 \times (((9+9)/9) + 9 \times 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8217 &:= 1 + ((1+1) \times (1 + (11 + ((1+1)^{1+1+11})))) \\
&:= 2 + (((2^{22/2+2}) + 2/2) + 22) \\
&:= 33 \times ((3+3)^3 + 33) \\
&:= 4 + (((4 \times (4^4 \times (4+4) + 4)) + 4/4) + 4) \\
&:= 5 \times 5 + ((5+5)/5)^{(55+5+5)/5} \\
&:= 66/6 \times (((6 \times 6/(6+6))^6 + 6) + 6) + 6) \\
&:= (77 - 7/7 + 7) \times (7 \times (7+7) + 7/7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) + 8/8) + 8) + 8) \\
&:= 99 \times (((9+9)/9) + 9 \times 9)
\end{aligned}$$

- 8218 := $(1+1) \times (1+(1+(11+((1+1)^{1+11}))))$
:= $2 + (((2^{22/2+2}) + 22) + 2)$
:= $3/3 + (33 \times ((3+3)^3 + 33))$
:= $4 + ((4+4)/4 \times (44/4 + (4+4)^4))$
:= $(5 \times (55 \times (5 \times 5 + 5))) - ((5+5)/5)^5$
:= $((66-6)/6) + (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6))$
:= $(7+7) \times (7 \times (77+7) - 7/7)$
:= $8 + (((8 \times 8 \times 8 \times (8+8)) + ((8+8)/8)) + 8) + 8$
:= $9/9 + (99 \times (((9+9)/9) + 9 \times 9))$
- 8219 := $1 + ((1+1) \times (1+(1+(11+((1+1)^{1+11}))))))$
:= $2 + (((2^{22/2+2}) + 2/2) + 22) + 2$
:= $3 + (((33/3 + 3 \times 3)^3) + (3+3)^3)$
:= $44/4 + (4 \times (4^4 \times (4+4) + 4))$
:= $5^5 + ((5 \times ((5-5/5)^5 - 5)) - 5/5)$
:= $66/6 + (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6))$
:= $7/7 + ((7+7) \times (7 \times (77+7) - 7/7))$
:= $8 + (((8 \times 8 \times 8 \times (8+8)) + (88/8)) + 8)$
:= $(9+9)/9 + (99 \times (((9+9)/9) + 9 \times 9))$
- 8220 := $(1+1) \times (1+(1+(1+(11+((1+1)^{1+11}))))))$
:= $2 + (((2^{22/2+2}) + 22) + 2) + 2$
:= $3 + (33 \times ((3+3)^3 + 33))$
:= $((4+4) \times (4 \times 4^4 + 4)) - 4$
:= $5^5 + (5 \times ((5-5/5)^5 - 5))$
:= $6 + ((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) + 6)$
:= $(77+7)/7 \times ((7 \times 7 \times (7+7)) - 7/7)$
:= $8 + (((8 \times 8 \times 8 \times (8+8)) + ((88+8)/8)) + 8)$
:= $9 + (9 \times (9 \times 99 + 9) + 999/9)$
- 8221 := $1 + ((1+1) \times (1+(1+(1+(11+((1+1)^{1+11}))))))$
:= $(22/2)^2 + ((2 \times 2 \times 22 + 2)^2)$
:= $(3 \times (33/3 + 3)^3) - 33/3$
:= $4/4 + (((4+4) \times (4 \times 4^4 + 4)) - 4)$
:= $5^5 + ((5 \times ((5-5/5)^5 - 5)) + 5/5)$
:= $6 + (((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) + 6/6) + 6)$
:= $(7 \times (7+7) \times (77+7)) - 77/7$
:= $((8+8) \times (8 \times 8 \times 8 + 8)) - (88/8 + 88)$
:= $9 + (9 \times (9 \times 99 + 9) + (999+9)/9)$
- 8222 := $(1+1) \times (11+((1+1) \times (1+(1+(1+1)^{11}))))$
:= $22 + (2 \times (2 \times (2^{22/2} + 2)))$
:= $(3 \times ((33/3 + 3)^3 - 3)) - 3/3$
:= $((4+4) \times (4 \times 4^4 + 4)) - (4+4)/4$
:= $5 + (((5+5)/5)^{(55+5+5)/5} + 5 \times 5)$
:= $6 \times 6 + (((6+6)/6)^{6/6+6+6}) - 6$
:= $((7-77)/7) + (7 \times (7+7) \times (77+7))$
:= $8 + ((8888-8)/8 + 8 \times 888)$
:= $9 \times (9 \times 99 + 9) + (999+99)/9$
- 8223 := $11 + ((1+1) \times (11+(((1+1)^{1+11}) - 1)))$
:= $2 + (((2 \times 2 \times 22 + 2)^2) + (22/2)^2)$
:= $3 \times ((33/3 + 3)^3 - 3)$
:= $((4+4) \times (4 \times 4^4 + 4)) - 4/4$
:= $(5 \times ((55 \times (5 \times 5 + 5)) - 5)) - (5+5)/5$
:= $6 + ((66/6) \times (((6 \times 6 / (6+6))^6) + 6) + 6) + 6$
:= $(7 \times (7+7) \times (77+7)) - ((7+7)/7 + 7)$
:= $8 + (8888/8 + 8 \times 888)$
:= $9 + (999/9 \times (((9+9)/9) - 9) + 9 \times 9)$
- 8224 := $(111^{1+1}) - (1 + ((1+1)^{1+11}))$
:= $2 \times (2^{2 \times (2+2+2)} + 2^{2+2})$
:= $3/3 + (3 \times ((33/3 + 3)^3 - 3))$
:= $(4+4) \times (4 \times 4^4 + 4)$
:= $(5 \times ((55 \times (5 \times 5 + 5)) - 5)) - 5/5$
:= $(6^{6-6/6}) + ((6/6+6) \times ((6+6)/6)^6)$
:= $(7 \times (7+7) \times (77+7)) - (7/7+7)$
:= $(8+8) \times (8 \times 8 \times 8 + (8+8)/8)$
:= $9 + (99 \times (((9+9)/9) + 9 \times 9)) - ((9+9)/9)$
- 8225 := $(111^{1+1}) - ((1+1)^{1+11})$
:= $22 + ((2^{22/2+2}) + 22/2)$
:= $3 + ((3 \times ((33/3 + 3)^3 - 3)) - 3/3)$
:= $4/4 + ((4+4) \times (4 \times 4^4 + 4))$
:= $5 \times ((55 \times (5 \times 5 + 5)) - 5)$
:= $6 + ((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) + (66/6))$
:= $(7 \times (7+7) \times (77+7)) - 7$
:= $8/8 + ((8+8) \times (8 \times 8 \times 8 + (8+8)/8))$
:= $9 + (99 \times (((9+9)/9) + 9 \times 9)) - 9/9$
- 8226 := $1 + ((111^{1+1}) - ((1+1)^{1+11}))$
:= $22^2 + ((2 \times 2 \times 22)^2 - 2)$
:= $3 + (3 \times ((33/3 + 3)^3 - 3))$
:= $(4+4)/4 + ((4+4) \times (4 \times 4^4 + 4))$
:= $5/5 + (5 \times ((55 \times (5 \times 5 + 5)) - 5))$
:= $666 + (6 \times (6 \times (6 \times 6 \times 6 - 6)))$
:= $7/7 + ((7 \times (7+7) \times (77+7)) - 7)$
:= $(8+8)/8 + ((8+8) \times (8 \times 8 \times 8 + (8+8)/8))$
:= $9 + (99 \times (((9+9)/9) + 9 \times 9))$
- 8227 := $1 + (1 + ((111^{1+1}) - ((1+1)^{1+11})))$
:= $22^2 + ((2 \times 2 \times 22)^2 - 2/2)$
:= $3 + ((3 \times ((33/3 + 3)^3 - 3)) + 3/3)$
:= $4 + (((4+4) \times (4 \times 4^4 + 4)) - 4/4)$
:= $(5+5)/5 + (5 \times ((55 \times (5 \times 5 + 5)) - 5))$
:= $6 \times 6 + (((6+6)/6)^{6/6+6+6}) - 6/6$
:= $(7+7)/7 + ((7 \times (7+7) \times (77+7)) - 7)$
:= $8 + (((8 \times 8 \times 8 \times (8+8)) + (88/8)) + 8) + 8$
:= $9 + (99 \times (((9+9)/9) + 9 \times 9)) + 9/9$
- 8228 := $(1+1) \times ((1+1) \times (11+((1+1)^{11} - (1+1))))$
:= $22^2 + (2 \times 2 \times 22)^2$
:= $(3/3 + 33) \times ((3^{3+3} - 3)/3)$
:= $4 + ((4+4) \times (4 \times 4^4 + 4))$
:= $5 + ((5 \times ((55 \times (5 \times 5 + 5)) - 5)) - ((5+5)/5))$
:= $6 \times 6 + (((6+6)/6)^{6/6+6+6})$
:= $7 + ((7 \times (7+7) \times (77+7)) - (77/7))$
:= $88 \times 88 + 88 \times 88 / (8+8)$
:= $99/9 + (99 \times (((9+9)/9) + 9 \times 9))$
- 8229 := $(1+1+1) \times ((1+1+1+11)^{1+1+1} - 1)$
:= $2/2 + ((2 \times 2 \times 22)^2 + 22^2)$
:= $(3 \times (33/3 + 3)^3) - 3$
:= $4 + (((4+4) \times (4 \times 4^4 + 4)) + 4/4)$
:= $5 + ((5 \times ((55 \times (5 \times 5 + 5)) - 5)) - 5/5)$
:= $6 \times 6 + (((6+6)/6)^{6/6+6+6}) + 6/6$
:= $(7 \times (7+7) \times (77+7)) - (7+7+7)/7$
:= $(8 \times 8 \times 8 \times (8+8)) + 888 / (8+8+8)$
:= $99 + (9 \times 9 \times 99 + 999/9)$
- 8230 := $(1+1) \times (((1+1) \times (11+((1+1)^{11} - 1))) - 1)$
:= $2 + ((2 \times 2 \times 22)^2 + 22^2)$
:= $3/3 + ((3 \times (33/3 + 3)^3) - 3)$
:= $4 + (((4+4) \times (4 \times 4^4 + 4)) + (4+4)/4)$
:= $5 + (5 \times ((55 \times (5 \times 5 + 5)) - 5))$
:= $6 + (((6/6+6) \times ((6+6)/6)^6) + (6^{6-6/6}))$
:= $(7 \times (7+7) \times (77+7)) - (7+7)/7$
:= $((8+8)/8) \times ((8 \times 8 \times 8 + 8) + (88/8) + 8)$
:= $99 + ((999+9)/9) + 9 \times 9 \times 99$
- 8231 := $((1+1) \times ((1+1) \times (11+((1+1)^{11} - 1)))) - 1$
:= $2 + (((2 \times 2 \times 22)^2 + 22^2) + 2/2)$
:= $(3 \times (33/3 + 3)^3) - 3/3$
:= $4 + (((4+4) \times (4 \times 4^4 + 4)) - 4/4) + 4$
:= $5 + ((5 \times ((55 \times (5 \times 5 + 5)) - 5)) + 5/5)$
:= $(6^{6-6/6}) + ((6/6+6) \times (66-6/6))$
:= $(7 \times (7+7) \times (77+7)) - 7/7$
:= $((8+8) \times (8 \times 8 \times 8 + 8)) - (8/8 + 88)$
:= $((9-9/9) \times (9999/9 - 9 \times 9)) - 9$
- 8232 := $(1+1) \times ((1+1) \times (11+((1+1)^{11} - 1)))$
:= $2 \times ((2^{2 \times (2+2+2)} - 2) + 22)$
:= $3 \times (33/3 + 3)^3$
:= $4 + (((4+4) \times (4 \times 4^4 + 4)) + 4)$
:= $((5 - (5+5)/5) + 5) \times ((5-5/5)^5 + 5)$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6))) + 666)$
:= $7 \times (7+7) \times (77+7)$
:= $((8+8) \times (8 \times 8 \times 8 + 8)) - 88$
:= $(99-9/9) \times (((9+9+9)/9) + 9 \times 9)$

$$\begin{aligned}
\blacktriangleright 8233 &:= 1 + ((1+1) \times ((1+1) \times (11 + ((1+1)^{11} - 1)))) \\
&:= 2/2 + ((2^{22/2+2}) + 2 \times (22 - 2)) \\
&:= 3/3 + (3 \times (33/3 + 3)^3) \\
&:= 4 + (((4+4) \times (4 \times 4^4 + 4)) + 4/4) + 4 \\
&:= 5^5 + (5 \times (5 - 5/5)^5 - ((55+5)/5)) \\
&:= (6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6)) - 66/6 \\
&:= 7/7 + (7 \times (7 + 7) \times (77 + 7)) \\
&:= 8/8 + (((8+8) \times (8 \times 8 \times 8 + 8)) - 88) \\
&:= 99 + ((99 - 9/9) \times (((9+9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8234 &:= (1+1) \times (((1+1) \times (11 + (1+1)^{11})) - 1) \\
&:= 2 \times 22 + ((2^{22/2+2}) - 2) \\
&:= 3 + ((3 \times (33/3 + 3)^3) - 3/3) \\
&:= 44 + ((4+4)/4 \times ((4+4)^4 - 4/4)) \\
&:= 5^5 + (5 \times (5 - 5/5)^5 - (55/5)) \\
&:= 6 + (((6+6)/6)^{6/6+6+6}) + 6 \times 6 \\
&:= (7+7)/7 + (7 \times (7+7) \times (77+7)) \\
&:= (8+8)/8 + (((8+8) \times (8 \times 8 \times 8 + 8)) - 88) \\
&:= 9 + (((99 \times ((9+9)/9) + 9 \times 9)) - 9/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8235 &:= ((1+1) \times ((1+1) \times (11 + (1+1)^{11}))) - 1 \\
&:= 2 \times 22 + ((2^{22/2+2}) - 2/2) \\
&:= 3 + (3 \times (33/3 + 3)^3) \\
&:= 44 + (4 \times 4^4 \times (4+4)) - 4/4 \\
&:= 5 + ((5 \times ((55 \times (5 \times 5 + 5)) - 5)) + 5) \\
&:= 6 \times 6 \times 6 + ((66/6) \times ((6 \times 6/(6+6))^6)) \\
&:= (7+7+7)/7 + (7 \times (7+7) \times (77+7)) \\
&:= 88/8 + ((8+8) \times (8 \times 8 \times 8 + (8+8)/8)) \\
&:= 9 + ((99 \times (((9+9)/9) + 9 \times 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8236 &:= (1+1) \times ((1+1) \times (11 + (1+1)^{11})) \\
&:= 2 \times (2^{2 \times (2+2+2)} + 22) \\
&:= 3 + ((3 \times (33/3 + 3)^3) + 3/3) \\
&:= 44 + (4 \times 4^4 \times (4+4)) \\
&:= 55/5 + (5 \times ((55 \times (5 \times 5 + 5)) - 5)) \\
&:= 6 \times 66 + ((6^{6-6/6}) + ((6+6)/6)^6) \\
&:= 77/7 + ((7 \times (7+7) \times (77+7)) - 7) \\
&:= (8 \times 8 \times 8 \times (8+8)) + (88/((8+8)/8)) \\
&:= 9 \times 9 \times (99+9) - ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8237 &:= 1 + ((1+1) \times ((1+1) \times (11 + (1+1)^{11}))) \\
&:= 2/2 + ((2^{22/2+2}) + 2 \times 22) \\
&:= 3 + (((3 \times (33/3 + 3)^3) - 3/3) + 3) \\
&:= 44 + ((4 \times 4^4 \times (4+4)) + 4/4) \\
&:= 5 + (((5 - (5+5)/5) + 5) \times ((5 - 5/5)^5 + 5)) \\
&:= 66 + (((6^{6-6/6}) - 6/6) + 6 \times 66) \\
&:= 7 + ((7 \times (7+7) \times (77+7)) - ((7+7)/7)) \\
&:= (8 \times (8 \times 8 \times (8+8) + 8)) - (88/8 + 8) \\
&:= 9 + ((99 \times (((9+9)/9) + 9 \times 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8238 &:= (1+1) \times (1 + ((1+1) \times (11 + (1+1)^{11}))) \\
&:= 2 + ((2^{22/2+2}) + 2 \times 22) \\
&:= 3 + ((3 \times (33/3 + 3)^3) + 3) \\
&:= 44 + ((4 \times 4^4 \times (4+4)) + (4+4)/4) \\
&:= (5/5 + 5) \times (5 \times 5 \times 55 - ((5+5)/5)) \\
&:= 66 + ((6^{6-6/6}) + 6 \times 66) \\
&:= 7 + ((7 \times (7+7) \times (77+7)) - 7/7) \\
&:= (8 - 88)/8 + ((8 \times (8 \times 8 \times (8+8) + 8)) - 8) \\
&:= 9 + ((9 \times 9 \times 99 + 999/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8239 &:= 1 + ((1+1) \times (1 + ((1+1) \times (11 + (1+1)^{11})))) \\
&:= 2 + (((2^{22/2+2}) + 2 \times 22) + 2/2) \\
&:= 3 + (((3 \times (33/3 + 3)^3) + 3/3) + 3) \\
&:= 4 + (((4 \times 4^4 \times (4+4)) - 4/4) + 44) \\
&:= (5 \times (55 \times (5 \times 5 + 5))) - 55/5 \\
&:= (6/6 + 6) \times ((6666/6) + 66) \\
&:= 7 + (7 \times (7+7) \times (77+7)) \\
&:= 888/8 + (8 \times (8 \times 8 \times (8+8) - 8)) \\
&:= 99/9 \times ((9 \times 9 \times 9 + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8240 &:= (1+1) \times ((1+1) \times (1 + (11 + (1+1)^{11}))) \\
&:= 2 \times ((2^{2 \times (2+2+2)} + 22) + 2) \\
&:= (3 \times ((33/3 + 3)^3 + 3)) - 3/3 \\
&:= 4 + ((4 \times 4^4 \times (4+4)) + 44) \\
&:= 5^5 + (5 \times (5 - 5/5)^5 - 5) \\
&:= 6 + (((6+6)/6)^{6/6+6+6}) + 6 \times 6 + 6 \\
&:= 7 + ((7 \times (7+7) \times (77+7)) + 7/7) \\
&:= (88 - 8) \times (888/8 - 8) \\
&:= (9 - 9/9) \times (9999/9 - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8241 &:= 1 + ((1+1) \times ((1+1) \times (1 + (11 + (1+1)^{11})))) \\
&:= 2/2 + ((2^{22/2+2}) + 2 \times (22 + 2)) \\
&:= 3 \times ((33/3 + 3)^3 + 3) \\
&:= 4 + (((4 \times 4^4 \times (4+4)) + 44) + 4/4) \\
&:= 5^5 + ((5 \times (5 - 5/5)^5 - 5) + 5/5) \\
&:= (66 + 6/6) \times ((6666/6 + 6) + 6) \\
&:= 7 \times 7 + (((7+7)/7)^{7-7/7+7}) \\
&:= 8/8 + ((88 - 8) \times (888/8 - 8)) \\
&:= 9 + ((99 - 9/9) \times (((9+9+9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8242 &:= (1+1) \times (1 + ((1+1) \times (1 + (11 + (1+1)^{11})))) \\
&:= ((2 \times (2 \times 22 + 2))^2) - 222 \\
&:= 3/3 + (3 \times ((33/3 + 3)^3 + 3)) \\
&:= 4 + (((4 \times 4^4 \times (4+4)) + (4+4)/4) + 44) \\
&:= (5 \times 5 + 5/5) \times ((5^5 - 5)/(5+5) + 5) \\
&:= (6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6)) - (6+6)/6 \\
&:= ((77 - 7)/7) + (7 \times (7+7) \times (77+7)) \\
&:= (8+8)/8 + ((88 - 8) \times (888/8 - 8)) \\
&:= 9 \times (999 - 9 \times 9) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8243 &:= 1 + ((1+1) \times (1 + ((1+1) \times (1 + (11 + (1+1)^{11})))))) \\
&:= 2/2 + (((2 \times (2 \times 22 + 2))^2) - 222) \\
&:= 33/3 + (3 \times (33/3 + 3)^3) \\
&:= 4 + (((4 \times 4^4 \times (4+4)) - 4/4) + 44) + 4 \\
&:= 5^5 + (5 \times (5 - 5/5)^5 - ((5+5)/5)) \\
&:= (6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6)) - 6/6 \\
&:= 77/7 + (7 \times (7+7) \times (77+7)) \\
&:= 88/8 + (((8+8) \times (8 \times 8 \times 8 + 8)) - 88) \\
&:= 9 \times (999 - 9 \times 9) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8244 &:= (1+1) \times ((1+1) \times (1 + (1 + (11 + (1+1)^{11})))) \\
&:= 2 \times ((2 \times (2^{22/2} + 2)) + 22) \\
&:= 3 + (3 \times ((33/3 + 3)^3 + 3)) \\
&:= 4 + (((4 \times 4^4 \times (4+4)) + 44) + 4) \\
&:= 5^5 + (5 \times (5 - 5/5)^5 - 5/5) \\
&:= 6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6) \\
&:= (77+7)/7 + (7 \times (7+7) \times (77+7)) \\
&:= (8 \times (8 \times 8 \times (8+8) + 8)) - (88+8)/8 \\
&:= 9 \times (999 - 9 \times 9) - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8245 &:= 1 + ((1+1) \times ((1+1) \times (1 + (1 + (11 + (1+1)^{11})))))) \\
&:= (2^{2+2} + 2/2) \times (22^2 + 2/2) \\
&:= 3 + ((3 \times ((33/3 + 3)^3 + 3)) + 3/3) \\
&:= (4/4 + 4) \times ((4/4 + 4)^4 + 4 \times 4^4) \\
&:= 5^5 + 5 \times (5 - 5/5)^5 \\
&:= 6/6 + (6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6)) \\
&:= 7 + (((7 \times (7+7) \times (77+7)) - 7/7) + 7) \\
&:= (8 \times (8 \times 8 \times (8+8) + 8)) - 88/8 \\
&:= 9 + (9 \times 9 \times (99+9) - ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8246 &:= 11 + (((1+1) \times ((1+1) \times (11 + (1+1)^{11}))) - 1) \\
&:= 2 + (2 \times ((2 \times (2^{22/2} + 2)) + 22)) \\
&:= 3 + ((3 \times (33/3 + 3)^3) + 33/3) \\
&:= 44 + ((4 \times 4^4 \times (4+4)) + (44 - 4)/4) \\
&:= 5^5 + (5 \times (5 - 5/5)^5 + 5/5) \\
&:= ((6+6)/6 + 6 \times 6) \times (6 \times 6 \times 6 + 6/6) \\
&:= 7 + ((7 \times (7+7) \times (77+7)) + 7) \\
&:= (8 - 88)/8 + (8 \times (8 \times 8 \times (8+8) + 8)) \\
&:= (9+9)/9 + (9 \times (999 - 9 \times 9) - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8247 &:= 11 + ((1+1) \times ((1+1) \times (11 + (1+1)^{11}))) \\
&:= 2 + ((2^{2+2} + 2/2) \times (22^2 + 2/2)) \\
&:= 3 + ((3 \times ((33/3 + 3)^3 + 3)) + 3) \\
&:= 44 + ((4 \times 4^4 \times (4+4)) + 44/4) \\
&:= 55 + ((5+5)/5)^{(55+5+5)/5} \\
&:= 6 + ((66+6/6) \times ((6666/6 + 6) + 6)) \\
&:= 7 + (((7 \times (7+7) \times (77+7)) + 7/7) + 7) \\
&:= (8 \times (8 \times 8 \times (8+8) + 8)) - (8/8 + 8) \\
&:= 9 + (((9 \times 9 \times 99 + 999/9) + 99) + 9)
\end{aligned}$$

- 8248 := $(1 + 111)/(1 + 1) + ((1 + 1)^{1+1+11})$
:= $2 \times ((2 \times (2^{22/2} + 2)) + 22) + 2$
:= $3 + (((3 \times ((33/3 + 3)^3 + 3)) + 3/3) + 3)$
:= $44 + ((4 \times (4^4 \times (4 + 4) + 4)) - 4)$
:= $5 \times (55 \times (5 \times 5 + 5)) - (5 + 5)/5$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6)) - ((6 + 6)/6))$
:= $7 + (((7 \times 7)/7)^{7-7/7+7}) + 7 \times 7$
:= $(8 \times (8 \times 8 \times (8 + 8) + 8)) - 8$
:= $9 + (99 \times (9 \times 9 - 9) + 9999/9)$
- 8249 := $1 + ((1 + 111)/(1 + 1) + ((1 + 1)^{1+1+11}))$
:= $2 + (((2^{2+2} + 2/2) \times (22^2 + 2/2)) + 2)$
:= $3 \times (((33/3 + 3)^3 + 3) + 3) - 3/3$
:= $4 + ((4 \times 4^4 \times (4 + 4)) + (4^4 - 44)/4)$
:= $5 \times (55 \times (5 \times 5 + 5)) - 5/5$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6)) - 6/6)$
:= $7 + ((7 \times (7 + 7) \times (77 + 7)) + ((77 - 7)/7))$
:= $8/8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) - 8)$
:= $9 + ((9 - 9/9) \times (9999/9 - 9 \times 9))$
- 8250 := $(1 + 1) \times (11 \times (1 + (11 \times (1 + 11 \times (1 + 1 + 1))))$
:= $22 + ((2 \times 2 \times 22)^2 + 22^2)$
:= $3 \times (((33/3 + 3)^3 + 3) + 3)$
:= $(44 + 4^4)/4 \times (444 - 4)/4$
:= $5 \times (55 \times (5 \times 5 + 5))$
:= $6 + (6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6))$
:= $7 + ((7 \times (7 + 7) \times (77 + 7)) + (77/7))$
:= $(8 + 8)/8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) - 8)$
:= $9 \times (999 - 9 \times 9) - (99 + 9)/9$
- 8251 := $(111/(1 + 1 + 1)) \times (1 + (1 + 1) \times 111)$
:= $(222 + 2/2) \times ((2 + 2 + 2)^2 + 2/2)$
:= $3/3 + (3 \times (((33/3 + 3)^3 + 3) + 3))$
:= $44 + ((4 \times (4^4 \times (4 + 4) + 4)) - 4/4)$
:= $5/5 + (5 \times (55 \times (5 \times 5 + 5)))$
:= $(6 \times 6 + 6/6) \times (6 \times 6 \times 6 + 6/6 + 6)$
:= $7 + ((7 \times (7 + 7) \times (77 + 7)) + (77 + 7)/7)$
:= $88/8 + ((88 - 8) \times (888/8 - 8))$
:= $9 \times (999 - 9 \times 9) - 99/9$
- 8252 := $1 + ((111/(1 + 1 + 1)) \times (1 + (1 + 1) \times 111))$
:= $2 \times ((2 \times ((2^{22/2} + 2) + 2)) + 22)$
:= $33/3 + (3 \times ((33/3 + 3)^3 + 3))$
:= $44 + (4 \times (4^4 \times (4 + 4) + 4))$
:= $(5 + 5)/5 + (5 \times (55 \times (5 \times 5 + 5)))$
:= $66 + (((6 + 6)/6)^{6/6+6+6}) - 6$
:= $7 + (((7 \times (7 + 7) \times (77 + 7)) - 7/7) + 7) + 7$
:= $(8 \times (8 \times 8 \times (8 + 8) + 8)) - 8 \times 8/(8 + 8)$
:= $9 \times (999 - 9 \times 9) - 9/9 - 9$
- 8253 := $((1 + 1)^{1+1+11}) + ((1 + 11^{1+1})/(1 + 1))$
:= $2 + ((222 + 2/2) \times ((2 + 2 + 2)^2 + 2/2))$
:= $3 \times ((3^3 \times (3 \times 33 + 3)) - 3)$
:= $44 + ((4 \times (4^4 \times (4 + 4) + 4)) + 4/4)$
:= $5 + ((5 \times (55 \times (5 \times 5 + 5))) - ((5 + 5)/5))$
:= $6 + (((66 + 6/6) \times ((666/6 + 6) + 6)) + 6)$
:= $7 + (((7 \times (7 + 7) \times (77 + 7)) + 7) + 7)$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) - (88/8))$
:= $9 \times (999 - 9 \times 9) - 9$
- 8254 := $(1 + 1) \times (11 + ((1 + 1) \times (11 + ((1 + 1)^{11} - 1))))$
:= $2^{2+2+2} + ((2^{22/2+2}) - 2)$
:= $3/3 + (3 \times ((3^3 \times (3 \times 33 + 3)) - 3))$
:= $(4^4 - 4 - 4)/4 + (4 \times 4^4 \times (4 + 4))$
:= $5 + ((5 \times (55 \times (5 \times 5 + 5))) - 5/5)$
:= $((66 - 6)/6) + (6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6))$
:= $7 + (((7 \times (7 + 7) \times (77 + 7)) + 7/7) + 7) + 7$
:= $(8 \times (8 \times 8 \times (8 + 8) + 8)) - (8 + 8)/8$
:= $9/9 + (9 \times (999 - 9 \times 9) - 9)$
- 8255 := $1 + ((1 + 1) \times (11 + ((1 + 1) \times (11 + ((1 + 1)^{11} - 1))))$
:= $2^{2+2+2} + ((2^{22/2+2}) - 2/2)$
:= $3 + ((3 \times ((33/3 + 3)^3 + 3)) + 33/3)$
:= $((4^4 - 4)/4) + (4 \times 4^4 \times (4 + 4))$
:= $5 + (5 \times (55 \times (5 \times 5 + 5)))$
:= $66/6 + (6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6))$
:= $7 + (((7 + 7)/7)^{7-7/7+7}) + 7 \times 7 + 7$
:= $(8 \times (8 \times 8 \times (8 + 8) + 8)) - 8/8$
:= $(9 + 9)/9 + (9 \times (999 - 9 \times 9) - 9)$
- 8256 := $(1 + 1) \times (11 + (((1 + 1) \times (11 + (1 + 1)^{11})) - 1))$
:= $2 \times (2 \times (2^{22/2} + 2^{2+2}))$
:= $3 + (3 \times ((3^3 \times (3 \times 33 + 3)) - 3))$
:= $4 \times (4^4 \times (4 + 4) + 4 \times 4)$
:= $5 + ((5 \times (55 \times (5 \times 5 + 5))) + 5/5)$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6)) + 6)$
:= $7 \times (77 - 7) + (7777 - (77/7))$
:= $8 \times (8 \times 8 \times (8 + 8) + 8)$
:= $((9 + 9 + 9)/9) + (9 \times (999 - 9 \times 9) - 9)$
- 8257 := $((1 + 1) \times (11 + ((1 + 1) \times (11 + (1 + 1)^{11})))) - 1$
:= $2/2 + ((2^{22/2+2}) + 2^{2+2+2})$
:= $3 + ((3 \times ((3^3 \times (3 \times 33 + 3)) - 3)) + 3/3)$
:= $4/4 + (4 \times (4^4 \times (4 + 4) + 4 \times 4))$
:= $5 + ((5 \times (55 \times (5 \times 5 + 5))) + ((5 + 5)/5))$
:= $6 + ((6 \times 6 + 6/6) \times (6 \times 6 \times 6 + 6/6 + 6))$
:= $7 + (((7 \times (7 + 7) \times (77 + 7)) + (77/7)) + 7)$
:= $8/8 + (8 \times (8 \times 8 \times (8 + 8) + 8))$
:= $((9 - 99)/(9 + 9)) + 9 \times (999 - 9 \times 9)$
- 8258 := $(1 + 1) \times (11 + ((1 + 1) \times (11 + (1 + 1)^{11})))$
:= $2 + ((2^{22/2+2}) + 2^{2+2+2})$
:= $3^3 + ((3 \times (33/3 + 3)^3) - 3/3)$
:= $(4 + 4)/4 + (4 \times (4^4 \times (4 + 4) + 4 \times 4))$
:= $5 + (((5 \times (55 \times (5 \times 5 + 5))) - ((5 + 5)/5)) + 5)$
:= $66 + (((6 + 6)/6)^{6/6+6+6})$
:= $((77 - 7) \times (777/7 + 7)) - (7 + 7)/7$
:= $(8 + 8)/8 + (8 \times (8 \times 8 \times (8 + 8) + 8))$
:= $((9 - 9 \times 9)/(9 + 9)) + 9 \times (999 - 9 \times 9)$
- 8259 := $1 + ((1 + 1) \times (11 + ((1 + 1) \times (11 + (1 + 1)^{11}))))$
:= $((2 \times 2 \times 22 + 2/2) + 2)^2 - 22$
:= $3 \times ((33/3 + 3)^3 + 3 \times 3)$
:= $4 + ((4 \times 4^4 \times (4 + 4)) + ((4^4 - 4)/4))$
:= $5 + (((5 \times (55 \times (5 \times 5 + 5))) - 5/5) + 5)$
:= $66 + (((6 + 6)/6)^{6/6+6+6}) + 6/6$
:= $((77 - 7) \times (777/7 + 7)) - 7/7$
:= $88/8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) - 8)$
:= $9 \times (999 - 9 \times 9) - (9 + 9 + 9)/9$
- 8260 := $(1 + 1) \times (1 + (11 + ((1 + 1) \times (11 + (1 + 1)^{11}))))$
:= $2 \times ((2 \times (2^{22/2} + 2^{2+2})) + 2)$
:= $3^3 + ((3 \times (33/3 + 3)^3) + 3/3)$
:= $4 + (4 \times (4^4 \times (4 + 4) + 4 \times 4))$
:= $5 + ((5 \times (55 \times (5 \times 5 + 5))) + 5)$
:= $((6 + 6)/6)^6 + 6 \times ((666 + 6)/6 + 6)$
:= $(77 - 7) \times (777/7 + 7)$
:= $8 \times 8/(8 + 8) + (8 \times (8 \times 8 \times (8 + 8) + 8))$
:= $9 \times (999 - 9 \times 9) - (9 + 9)/9$
- 8261 := $11 \times (11 + (11 + (11 - 1 - 1)^{1+1+1}))$
:= $2 + (((2 \times 2 \times 22 + 2/2) + 2)^2) - 22$
:= $(3 \times (3^3 \times (3 \times 33 + 3))) - 3/3$
:= $4 + ((4 \times (4^4 \times (4 + 4) + 4 \times 4)) + 4/4)$
:= $55/5 + (5 \times (55 \times (5 \times 5 + 5)))$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 6)) + (66/6))$
:= $7/7 + ((77 - 7) \times (777/7 + 7))$
:= $8 + (((8 \times (8 \times 8 \times (8 + 8) + 8)) - (88/8)) + 8)$
:= $9 \times (999 - 9 \times 9) - 9/9$
- 8262 := $(1 + 1) \times (11 + ((1 + 1) \times (1 + (11 + (1 + 1)^{11}))))$
:= $(22^2 + 2) \times (2^{2+2} + 2/2)$
:= $3 \times (3^3 \times (3 \times 33 + 3))$
:= $4 + ((4 \times (4^4 \times (4 + 4) + 4 \times 4)) + (4 + 4)/4)$
:= $(5/5 + 5) \times (5 \times 5 \times 55 + ((5 + 5)/5))$
:= $666 + (6 \times ((6 \times (6 \times 6 \times 6 - 6)) + 6))$
:= $77 + (((7 + 7)/7)^{7-7/7+7}) - 7$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) - ((8 + 8)/8))$
:= $9 \times (999 - 9 \times 9)$

- 8263 := $1 + ((1 + 1) \times (11 + ((1 + 1) \times (1 + (11 + (1 + 1)^{11})))))$
:= $2/2 + ((22^2 + 2) \times (2^{2+2} + 2/2))$
:= $3/3 + (3 \times (3^3 \times (3 \times 33 + 3)))$
:= $4 + (((4 \times 4^4 \times (4 + 4)) + ((4^4 - 4)/4) + 4)$
:= $(55 + 5 + 5)/5 + (5 \times (55 \times (5 \times 5 + 5)))$
:= $6 + (((6 \times 6 + 6/6) \times (6 \times 6 \times 6 + 6/6 + 6)) + 6)$
:= $(7 \times ((7 + 7) \times (77 + 7) + 7)) - (77/7 + 7)$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) - 8/8)$
:= $9/9 + 9 \times (999 - 9 \times 9)$
- 8264 := $(1 + 1) \times (((1 + 1)^{1+11}) + ((1 + 1 + 1) \times (1 + 11)))$
:= $2 + ((22^2 + 2) \times (2^{2+2} + 2/2))$
:= $3 + ((3 \times (3^3 \times (3 \times 33 + 3))) - 3/3)$
:= $4 + ((4 \times (4^4 \times (4 + 4) + 4 \times 4)) + 4)$
:= $(5 \times ((55 \times (5 \times 5 + 5)) + 5)) - 55/5$
:= $6 + (((6 + 6)/6)^{6/6+6+6} + 66)$
:= $(7/7 + 7) \times ((7777 - 7)/7 - 77)$
:= $8 + (8 \times (8 \times 8 \times (8 + 8) + 8))$
:= $(9 + 9)/9 + 9 \times (999 - 9 \times 9)$
- 8265 := $(1 + 1 + 1) \times (11 + (1 + 1 + 1 + 11)^{1+1+1})$
:= $((2222/22)^2) - (2 \times 22)^2$
:= $3 + (3 \times (3^3 \times (3 \times 33 + 3)))$
:= $4 + (((4 \times (4^4 \times (4 + 4) + 4 \times 4)) + 4/4) + 4)$
:= $5 + (((5 \times (55 \times (5 \times 5 + 5))) + 5) + 5)$
:= $6 + (((((6 + 6)/6)^{6/6+6+6} + 66) + 6/6))$
:= $7 \times (77 - 7) + (7777 - ((7 + 7)/7))$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) + 8/8)$
:= $((9 + 9 + 9)/9) + 9 \times (999 - 9 \times 9)$
- 8266 := $(1 + 1) \times (((1 + 1)^{1+11}) + (111/(1 + 1 + 1)))$
:= $2 + (((22^2 + 2) \times (2^{2+2} + 2/2)) + 2)$
:= $3 + ((3 \times (3^3 \times (3 \times 33 + 3))) + 3/3)$
:= $44 + (((4 + 4) \times (4 \times 4^4 + 4)) - (4 + 4)/4)$
:= $5 + ((5 \times (55 \times (5 \times 5 + 5))) + (55/5))$
:= $6 + (((6 + 6)/6)^6 + 6) \times ((666 + 6)/6 + 6)$
:= $7 \times (77 - 7) + (7777 - 7/7)$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) + ((8 + 8)/8))$
:= $9 \times 9 \times 99 + (((9 + 9)/9)^{9-9/9} - 9)$
- 8267 := $1 + ((1 + 1) \times (((1 + 1)^{1+11}) + (111/(1 + 1 + 1))))$
:= $2 + (((2222/22)^2) - (2 \times 22)^2)$
:= $3 + (((3 \times (3^3 \times (3 \times 33 + 3))) - 3/3) + 3)$
:= $44 + (((4 + 4) \times (4 \times 4^4 + 4)) - 4/4)$
:= $5 + ((5 \times (55 \times (5 \times 5 + 5))) + ((55 + 5)/5))$
:= $(6/6 + 6) \times ((66 \times (6 + 6 + 6)) - (6/6 + 6))$
:= $7 \times (77 - 7) + 7777$
:= $88/8 + (8 \times (8 \times 8 \times (8 + 8) + 8))$
:= $((9 \times 9 + 9)/(9 + 9)) + 9 \times (999 - 9 \times 9)$
- 8268 := $(1 + 1) \times (1 + (((1 + 1)^{1+11}) + (111/(1 + 1 + 1))))$
:= $2 \times ((2^{2+2+2} + 2)^2 - 222)$
:= $3 + ((3 \times (3^3 \times (3 \times 33 + 3))) + 3)$
:= $44 + ((4 + 4) \times (4 \times 4^4 + 4))$
:= $(5 \times 5 + 5/5) \times ((5^5 + 5)/(5 + 5) + 5)$
:= $66 + ((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) - 6)$
:= $7/7 + (7 \times (77 - 7) + 7777)$
:= $((88 + 8)/8) + (8 \times (8 \times 8 \times (8 + 8) + 8))$
:= $9 + (9 \times (999 - 9 \times 9) - ((9 + 9 + 9)/9))$
- 8269 := $((1 + (11 - 1) \times (11 - 1 - 1))^{1+1}) - 1 - 11$
:= $((22/2 + 2)^2) + ((2 \times 2 \times 22 + 2)^2)$
:= $3 + (((3 \times (3^3 \times (3 \times 33 + 3))) + 3/3) + 3)$
:= $44 + (((4 + 4) \times (4 \times 4^4 + 4)) + 4/4)$
:= $5^5 + ((5 \times ((5 - 5/5)^5 + 5)) - 5/5)$
:= $((6 - 66) \times (6 - (6 + 6) \times (6 + 6))) - 66/6$
:= $77 + (((7 + 7)/7)^{7-7/7+7})$
:= $88 + ((8 \times 8 \times 8 \times (8 + 8)) - (88/8))$
:= $9 + (9 \times (999 - 9 \times 9) - ((9 + 9)/9))$
- 8270 := $(11 - 1) \times ((1 + 1)^{11} - 11 \times 111)$
:= $(2 \times (2 \times ((2^{22/2} - 2) + 22))) - 2$
:= $(3 \times ((3^3 \times (3 \times 33 + 3)) + 3)) - 3/3$
:= $(44 \times (444 - 4^4)) - (4 + 4)/4$
:= $5^5 + (5 \times ((5 - 5/5)^5 + 5))$
:= $6 + (((6 + 6)/6)^{6/6+6+6} + 66) + 6/6$
:= $(7 \times ((7 + 7) \times (77 + 7) + 7)) - 77/7$
:= $8 + (((8 \times (8 \times 8 \times (8 + 8) + 8)) - ((8 + 8)/8)) + 8)$
:= $9 + (9 \times (999 - 9 \times 9) - 9/9)$
- 8271 := $1 + ((11 - 1) \times ((1 + 1)^{11} - 11 \times 111))$
:= $(2^{22/2+2}) + ((2/2 + 2)^{2+2} - 2)$
:= $3 \times ((3^3 \times (3 \times 33 + 3)) + 3)$
:= $(44 \times (444 - 4^4)) - 4/4$
:= $5^5 + ((5 \times ((5 - 5/5)^5 + 5)) + 5/5)$
:= $666 + ((66 - 6/6) \times (666/6 + 6))$
:= $77/7 + ((77 - 7) \times (777/7 + 7))$
:= $8 + (((8 \times (8 \times 8 \times (8 + 8) + 8)) - 8/8) + 8)$
:= $9 + 9 \times (999 - 9 \times 9)$
- 8272 := $(1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} + ((1 + 1) \times (11 - 1))))$
:= $2 \times (2 \times ((2^{22/2} - 2) + 22))$
:= $3/3 + (3 \times ((3^3 \times (3 \times 33 + 3)) + 3))$
:= $44 \times (444 - 4^4)$
:= $5^5 + ((5 \times ((5 - 5/5)^5 + 5)) + ((5 + 5)/5))$
:= $((6 + 6)/6)^6 + (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6))$
:= $(7/7 + 7) \times (7777/7 - 77)$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) + 8)$
:= $9 + (9 \times (999 - 9 \times 9) + 9/9)$
- 8273 := $(11 - 1 - 1)^{1+1} + ((1 + 1)^{1+1+11})$
:= $(2^{22/2+2}) + (2/2 + 2)^{2+2}$
:= $33/3 + (3 \times (3^3 \times (3 \times 33 + 3)))$
:= $4/4 + (44 \times (444 - 4^4))$
:= $(5 \times ((55 \times (5 \times 5 + 5)) + 5)) - (5 + 5)/5$
:= $66 + ((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) - 6/6)$
:= $(7 \times ((7 + 7) \times (77 + 7) + 7)) - (7/7 + 7)$
:= $8 + (((8 \times (8 \times 8 \times (8 + 8) + 8)) + 8/8) + 8)$
:= $99/9 + 9 \times (999 - 9 \times 9)$
- 8274 := $1 + ((11 - 1 - 1)^{1+1} + ((1 + 1)^{1+1+11}))$
:= $2 + (2 \times (2 \times ((2^{22/2} - 2) + 22)))$
:= $3 + (3 \times ((3^3 \times (3 \times 33 + 3)) + 3))$
:= $(4 + 4)/4 + (44 \times (444 - 4^4))$
:= $(5 \times ((55 \times (5 \times 5 + 5)) + 5)) - 5/5$
:= $66 + (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6))$
:= $(7 \times ((7 + 7) \times (77 + 7) + 7)) - 7$
:= $8 + (((8 \times (8 \times 8 \times (8 + 8) + 8)) + ((8 + 8)/8)) + 8)$
:= $(99 + 9)/9 + 9 \times (999 - 9 \times 9)$
- 8275 := $1 + (1 + ((11 - 1 - 1)^{1+1} + ((1 + 1)^{1+1+11})))$
:= $2 + ((2^{22/2+2}) + (2/2 + 2)^{2+2})$
:= $3 + ((3 \times ((3^3 \times (3 \times 33 + 3)) + 3)) + 3/3)$
:= $4 + ((44 \times (444 - 4^4)) - 4/4)$
:= $5 \times ((55 \times (5 \times 5 + 5)) + 5)$
:= $66 + ((6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) + 6/6)$
:= $7/7 + ((7 \times ((7 + 7) \times (77 + 7) + 7)) - 7)$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) + (88/8))$
:= $9 \times 9 \times 99 + (((9 + 9)/9)^{9-9/9})$
- 8276 := $(1 + 1) \times ((1 + 1) \times (11 + (11 + ((1 + 1)^{11} - 1))))$
:= $2 \times ((2 \times (2^{22/2} + 22)) - 2)$
:= $3 + ((3 \times (3^3 \times (3 \times 33 + 3))) + 33/3)$
:= $4 + (44 \times (444 - 4^4))$
:= $5/5 + (5 \times ((55 \times (5 \times 5 + 5)) + 5))$
:= $((6 + 6)/6) \times (((6 + 6)/6)^{6+6} + 6 \times 6) + 6$
:= $7 + (((7 + 7)/7)^{7-7/7+7} + 77)$
:= $8 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) + ((88 + 8)/8))$
:= $9 + (9 \times (999 - 9 \times 9) + ((9 \times 9 + 9)/(9 + 9)))$
- 8277 := $1 + ((1 + 1) \times ((1 + 1) \times (11 + (11 + ((1 + 1)^{11} - 1))))$
:= $((2 \times 2 \times 22 + 2/2) + 2)^2 - 2 - 2$
:= $3 + ((3 \times ((3^3 \times (3 \times 33 + 3)) + 3)) + 3)$
:= $4 + ((44 \times (444 - 4^4)) + 4/4)$
:= $(5 + 5)/5 + (5 \times ((55 \times (5 \times 5 + 5)) + 5))$
:= $6 \times 6 + ((66 + 6/6) \times ((666/6 + 6) + 6))$
:= $7 + ((7 \times ((7 + 7) \times (77 + 7) + 7)) - (77/7))$
:= $8 + (((8 \times 8 \times 8 \times (8 + 8)) - (88/8)) + 88)$
:= $((9 \times 9 - 9/9) + 9) \times ((99 + 9)/9 + 9 \times 9)$

$$\begin{aligned}
\blacktriangleright 8278 &:= (1+1) \times (((1+1) \times (11+(11+(1+1)^{11}))) - 1) \\
&:= (2 \times (2 \times (2^{22/2} + 22))) - 2 \\
&:= ((3 \times (3^3 + 3) + 3/3)^{3-3/3}) - 3 \\
&:= (4+4)/4 \times (((4+4)^4 - 4/4) + 44) \\
&:= 5 + ((5 \times ((55 \times (5 \times 5 + 5)) + 5)) - ((5+5)/5)) \\
&:= ((6-66) \times (6 - (6+6) \times (6+6))) - (6+6)/6 \\
&:= 77/7 + (7 \times (77-7) + 7777) \\
&:= 88 + ((8 \times 8 \times 8 \times (8+8)) - ((8+8)/8)) \\
&:= 9 + ((9 \times (999-9 \times 9) - ((9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8279 &:= ((1 + (11 - 1) \times (11 - 1 - 1))^{1+1}) - 1 - 1 \\
&:= (((2 \times 2 \times 22 + 2/2) + 2)^2) - 2 \\
&:= (3 \times ((3^3 \times (3 \times 33 + 3)) + 3) + 3) - 3/3 \\
&:= ((4+4) \times (44/4 + 4 \times 4^4)) - 4/4 \\
&:= 5 + ((5 \times ((55 \times (5 \times 5 + 5)) + 5)) - 5/5) \\
&:= ((6-66) \times (6 - (6+6) \times (6+6))) - 6/6 \\
&:= (7 \times ((7+7) \times (77+7) + 7)) - (7+7)/7 \\
&:= 88 + ((8 \times 8 \times 8 \times (8+8)) - 8/8) \\
&:= 9 + ((9 \times (999-9 \times 9) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8280 &:= ((1 + (11 - 1) \times (11 - 1 - 1))^{1+1}) - 1 \\
&:= 2 \times (2 \times (2^{22/2} + 22)) \\
&:= 3 \times (((3^3 \times (3 \times 33 + 3)) + 3) + 3) \\
&:= (4+4) \times (44/4 + 4 \times 4^4) \\
&:= 5 + (5 \times ((55 \times (5 \times 5 + 5)) + 5)) \\
&:= (6-66) \times (6 - (6+6) \times (6+6)) \\
&:= (7 \times ((7+7) \times (77+7) + 7)) - 7/7 \\
&:= 88 + (8 \times 8 \times 8 \times (8+8)) \\
&:= 9 + (9 \times (999-9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8281 &:= (1 + (11 - 1) \times (11 - 1 - 1))^{1+1} \\
&:= ((2 \times 2 \times 22 + 2/2) + 2)^2 \\
&:= (3 \times (3^3 + 3) + 3/3)^{3-3/3} \\
&:= 4/4 + ((4+4) \times (44/4 + 4 \times 4^4)) \\
&:= 5 + ((5 \times ((55 \times (5 \times 5 + 5)) + 5)) + 5/5) \\
&:= 6/6 + ((6-66) \times (6 - (6+6) \times (6+6))) \\
&:= 7 \times ((7+7) \times (77+7) + 7) \\
&:= 8/8 + ((8 \times 8 \times 8 \times (8+8)) + 88) \\
&:= ((9/9 + 9 \times 9) + 9)^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8282 &:= 1 + ((1 + (11 - 1) \times (11 - 1 - 1))^{1+1}) \\
&:= 2 + (2 \times (2 \times (2^{22/2} + 22))) \\
&:= 3/3 + ((3 \times (3^3 + 3) + 3/3)^{3-3/3}) \\
&:= (4+4)/4 \times (((4+4)^4 + 44) + 4/4) \\
&:= ((5+5)/5)^5 + (5 \times (55 \times (5 \times 5 + 5))) \\
&:= (6+6)/6 + ((6-66) \times (6 - (6+6) \times (6+6))) \\
&:= 7/7 + (7 \times ((7+7) \times (77+7) + 7)) \\
&:= 88 + ((8 \times 8 \times 8 \times (8+8)) + ((8+8)/8)) \\
&:= (9/9 + 9 \times 9) \times ((9+9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8283 &:= 1 + (1 + ((1 + (11 - 1) \times (11 - 1 - 1))^{1+1})) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2) + 2)^2) \\
&:= 33 \times (((3^3 + 3) - 3)/3) + 3 \times 3 \\
&:= 44/4 + (44 \times (444 - 4^4)) \\
&:= ((5+5)/5 \times (((5-5/5)^5 - 5) + 5^5)) - 5 \\
&:= 6 \times 66 + (666/6 + (6^{6-6/6})) \\
&:= (7+7)/7 + (7 \times ((7+7) \times (77+7) + 7)) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) + 8) + (88/8) + 8) \\
&:= 9 + (9 \times (999-9 \times 9) + (99+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8284 &:= 1 + (1 + (1 + ((1 + (11 - 1) \times (11 - 1 - 1))^{1+1}))) \\
&:= 2 \times ((2 \times (2^{22/2} + 22)) + 2) \\
&:= 3 + ((3 \times (3^3 + 3) + 3/3)^{3-3/3}) \\
&:= ((4+4) \times (4 \times (4^4 + 4) - 4)) - 4 \\
&:= 5 + (((5 \times ((55 \times (5 \times 5 + 5)) + 5)) - 5/5) + 5) \\
&:= ((6+6)/6 + 6 \times 6) \times (6 \times 6 \times 6 + (6+6)/6) \\
&:= (7/7 - 77) \times (((7-777) + 7)/7) \\
&:= 88 + ((8 \times 8 \times 8 \times (8+8)) + 8 \times 8/(8+8)) \\
&:= 9 + (((9+9)/9)^{9-9/9}) + 9 \times 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8285 &:= 1 + (1 + (1 + (1 + ((1 + (11 - 1) \times (11 - 1 - 1))^{1+1})))) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2) + 2)^2) + 2 \\
&:= (3 \times ((33/3 + 3)^3 + (3 \times (3+3)))) - 3/3 \\
&:= 4/4 + (((4+4) \times (4 \times (4^4 + 4) - 4)) - 4) \\
&:= 5 + ((5 \times ((55 \times (5 \times 5 + 5)) + 5)) + 5) \\
&:= 6 + (((6-66) \times (6 - (6+6) \times (6+6))) - 6/6) \\
&:= 77/7 + ((7 \times ((7+7) \times (77+7) + 7)) - 7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) - (88/8) + 88) + 8) \\
&:= 99 \times (9 \times 9 - 9 - 9) + (((9+9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8286 &:= (1 + 1) \times (((1 + 111) \times (111/(1 + 1 + 1))) - 1) \\
&:= 2 + (2 \times ((2 \times (2^{22/2} + 22)) + 2)) \\
&:= 3 \times ((33/3 + 3)^3 + (3 \times (3+3))) \\
&:= ((4+4) \times (4 \times (4^4 + 4) - 4)) - (4+4)/4 \\
&:= 55/5 + (5 \times ((55 \times (5 \times 5 + 5)) + 5)) \\
&:= 6 + ((6-66) \times (6 - (6+6) \times (6+6))) \\
&:= 7 + ((7 \times ((7+7) \times (77+7) + 7)) - ((7+7)/7)) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) - ((8+8)/8) + 88) \\
&:= 9 + (((9 \times 9 - 9/9) + 9) \times ((99+9)/9 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8287 &:= ((1 + 1) \times ((1 + 111) \times (111/(1 + 1 + 1)))) - 1 \\
&:= 2 + (((2 \times 2 \times 22 + 2/2) + 2)^2) + 2 \\
&:= 3 + (((3 \times (3^3 + 3) + 3/3)^{3-3/3}) + 3) \\
&:= ((4+4) \times (4 \times (4^4 + 4) - 4)) - 4/4 \\
&:= 5 + ((5 \times (55 \times (5 \times 5 + 5))) + ((5+5)/5)^5) \\
&:= 6 + (((6-66) \times (6 - (6+6) \times (6+6))) + 6/6) \\
&:= 7 + ((7 \times ((7+7) \times (77+7) + 7)) - 7/7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) - 8/8) + 88) \\
&:= 999 + (9 \times 9 \times (9 \times 9 + 9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8288 &:= (1 + 1) \times ((1 + 111) \times (111/(1 + 1 + 1))) \\
&:= 2 \times (2 \times ((2^{22/2} + 22) + 2)) \\
&:= (3^3 + 3/3) \times (3 \times 3 \times 33 - 3/3) \\
&:= (4+4) \times (4 \times (4^4 + 4) - 4) \\
&:= (5+5)/5 \times (((5-5/5)^5 - 5) + 5^5) \\
&:= (6 \times 6 + 6/6) \times ((6 \times 6 \times 6 + (6+6)/6) + 6) \\
&:= 7 + (7 \times ((7+7) \times (77+7) + 7)) \\
&:= 8 + ((8 \times 8 \times 8 \times (8+8)) + 88) \\
&:= 999 + (9 \times 9 \times (9 \times 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8289 &:= 1 + ((1 + 1) \times ((1 + 111) \times (111/(1 + 1 + 1)))) \\
&:= 2/2 + (2 \times (2 \times ((2^{22/2} + 22) + 2))) \\
&:= 3 \times ((3^3 \times (3 \times 33 + 3)) + 3 \times 3) \\
&:= 4/4 + ((4+4) \times (4 \times (4^4 + 4) - 4)) \\
&:= (5/5 + 5)^5 + ((5^5 - (555 + 5))/5) \\
&:= ((6 \times 6/(6+6))^6) + (6 \times (6 \times (6 \times 6 - 6))) \\
&:= 7 + ((7 \times ((7+7) \times (77+7) + 7)) + 7/7) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) + 88) + 8/8) \\
&:= 999 + 9 \times 9 \times (9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8290 &:= (1 + 1) \times (1 + ((1 + 111) \times (111/(1 + 1 + 1)))) \\
&:= 2 + (2 \times (2 \times ((2^{22/2} + 22) + 2))) \\
&:= 3^3 + ((3 \times (3^3 \times (3 \times 33 + 3))) + 3/3) \\
&:= (4+4)/4 + ((4+4) \times (4 \times (4^4 + 4) - 4)) \\
&:= 5 + (((5 \times ((55 \times (5 \times 5 + 5)) + 5)) + 5) + 5) \\
&:= 6 + (((6+6)/6 + 6 \times 6) \times (6 \times 6 \times 6 + (6+6)/6)) \\
&:= 7 \times (7+7) + (((7+7)/7)^{7-7/7+7}) \\
&:= 8 + (((8 \times 8 \times 8 \times (8+8)) + ((8+8)/8) + 88) \\
&:= 9 + (((9/9 + 9 \times 9) + 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8291 &:= 111 + (((1 + 1)^{1+1+11}) - (1 + 11)) \\
&:= 22/2 + (2 \times (2 \times (2^{22/2} + 22))) \\
&:= 3 + ((3^3 + 3/3) \times (3 \times 3 \times 33 - 3/3)) \\
&:= 4 + (((4+4) \times (4 \times (4^4 + 4) - 4)) - 4/4) \\
&:= 5 + ((5 \times ((55 \times (5 \times 5 + 5)) + 5)) + (55/5)) \\
&:= 66/6 + ((6-66) \times (6 - (6+6) \times (6+6))) \\
&:= 7 + ((7/7 - 77) \times (((7-777) + 7)/7)) \\
&:= 88 + ((8 \times 8 \times 8 \times (8+8)) + (88/8)) \\
&:= 9 + ((9/9 + 9 \times 9) \times ((9+9)/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8292 &:= 111 + (((1 + 1)^{1+1+11}) - 11) \\
&:= 2 \times ((2 \times (2^{22/2} + 22) + 2)) + 2 \\
&:= 3 + ((3 \times (3^3 \times (3 \times 33 + 3))) + 3^3) \\
&:= 4 + ((4+4) \times (4 \times (4^4 + 4) - 4)) \\
&:= (5-5/5) \times (((5+5)/5)^{55/5}) + 5 \times 5 \\
&:= 6 + (((6-66) \times (6 - (6+6) \times (6+6))) + 6) \\
&:= 77/7 + (7 \times ((7+7) \times (77+7) + 7)) \\
&:= 88 + ((8 \times 8 \times 8 \times (8+8)) + ((88+8)/8)) \\
&:= 999/9 + 9 \times (9 \times 99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned} \blacktriangleright 8293 &:= 1 + (111 + (((1+1)^{1+1+1}) - 11)) \\ &:= (2^{22/2+2}) + 2222/22 \\ &:= ((3/3+33) \times ((3^3+3)/3)) - 3 \\ &:= 4 + (((4+4) \times (4 \times (4^4+4) - 4)) + 4/4) \\ &:= ((5+5+5) \times 555) - ((5+5)/5)^5 \\ &:= 6 + (((6-66) \times (6 - (6+6) \times (6+6))) + 6/6) + 6 \\ &:= (77+7)/7 + (7 \times ((7+7) \times (77+7) + 7)) \\ &:= (8 \times 8 \times 8 \times (8+8)) + (8888/88) \\ &:= ((999+9)/9) + 9 \times (9 \times 99+9+9) \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8294 &:= 1 + (1 + (111 + (((1+1)^{1+1+1}) - 11))) \\ &:= 22 \times ((22/2)^2 + 2^{2 \times (2+2)}) \\ &:= 33 + ((3 \times (3^3 \times (3 \times 33+3))) - 3/3) \\ &:= 4 + (((4+4) \times (4 \times (4^4+4) - 4)) + (4+4)/4) \\ &:= 55 + ((5 \times (55 \times (5 \times 5+5))) - (55/5)) \\ &:= 6 \times 6 + (((6+6)/6)^{6/6+6+6}) + 66 \\ &:= 7 + (((7 \times ((7+7) \times (77+7) + 7)) - 7/7) + 7) \\ &:= (8 \times 8 \times 8 \times (8+8)) + ((888-8)/8-8) \\ &:= 99/9 \times (((9 \times 9 \times 9 - (9+9)/9) + 9) + 9) + 9 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8295 &:= 111 + ((1+1) \times ((1+1) \times ((1+1)^{11} - (1+1)))) \\ &:= 222/2 + (2 \times 2 \times (2^{22/2} - 2)) \\ &:= 33 + (3 \times (3^3 \times (3 \times 33+3))) \\ &:= 4 + (((4+4) \times (4 \times (4^4+4) - 4)) - 4/4) + 4 \\ &:= 5^5 + (5 \times (((5-5/5)^5 + 5) + 5)) \\ &:= (6/6+6) \times (6 \times 6 \times 6 \times 6 - 666/6) \\ &:= 7 + ((7 \times ((7+7) \times (77+7) + 7)) + 7) \\ &:= 888/8 + ((8 \times 8 \times 8 \times (8+8)) - 8) \\ &:= 9 \times 9 + 999/9 \times (((9+9)/9) - 9) + 9 \times 9 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8296 &:= (1+1) \times ((1+11^{1+1}) \times (1+11 \times (1+1+1))) \\ &:= 2 \times (2 \times (((2^{22/2} + 22) + 2) + 2)) \\ &:= (3/3+33) \times ((3^3+3)/3) \\ &:= 4 + (((4+4) \times (4 \times (4^4+4) - 4)) + 4) \\ &:= (5/5+5)^5 + ((5^5-5)/(5/5+5)) \\ &:= ((6+6)/6+66) \times ((666+66)/6) \\ &:= 7 + (((7 \times ((7+7) \times (77+7) + 7)) + 7/7) + 7) \\ &:= 8 + (((8 \times 8 \times 8 \times (8+8)) + 88) + 8) \\ &:= 9 + ((9 \times 9 \times (9 \times 9+9) - (9+9)/9) + 999) \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8297 &:= 111 + ((1+1) \times (((1+1)^{1+1+1}) - (1+1+1))) \\ &:= 2^{2+2} + (((2 \times 2 \times 22 + 2/2) + 2)^2) \\ &:= 3 \times 3 \times 33 + ((33/3 + 3 \times 3)^3) \\ &:= 4 + (((4+4) \times (4 \times (4^4+4) - 4)) + 4/4) + 4 \\ &:= (5/5+5)^5 + ((5^5+5/5)/(5/5+5)) \\ &:= 6 + (((6-66) \times (6 - (6+6) \times (6+6))) + (66/6)) \\ &:= 7 + (((7+7)/7)^{7-7/7+7}) + 7 \times (7+7) \\ &:= 8 + (((8 \times 8 \times 8 \times (8+8)) + 88) + 8/8) + 8 \\ &:= 9 + ((9 \times 9 \times (9 \times 9+9) - 9/9) + 999) \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8298 &:= 111 + (((1+1) \times ((1+1) \times ((1+1)^{11} - 1))) - 1) \\ &:= 2 + (2 \times (2 \times (((2^{22/2} + 22) + 2) + 2))) \\ &:= 3 \times ((33 \times (3 \times 3^3 + 3)) - (3+3)) \\ &:= (4+4)/4 \times ((4^4-44)/4 + (4+4)^4) \\ &:= (5+5)/5 \times ((5-5/5)^5 + 5^5) \\ &:= 6 \times (((66 \times (6 \times 6+6)) - 6)/(6+6)/6) \\ &:= 77 + ((7 \times (7+7) \times (77+7)) - (77/7)) \\ &:= ((8+8)/8) \times (8 \times (8 \times 8 \times 8) - (88/8)) \\ &:= 9 + (9 \times 9 \times (9 \times 9+9) + 999) \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8299 &:= 111 + ((1+1) \times ((1+1) \times ((1+1)^{11} - 1))) \\ &:= 222/2 + (2 \times (2^{2 \times (2+2+2)} - 2)) \\ &:= 3 + ((3/3+33) \times ((3^3+3)/3)) \\ &:= 44/4 + ((4+4) \times (4 \times (4^4+4) - 4)) \\ &:= ((5+5+5) \times 555) - (5 \times 5 + 5/5) \\ &:= (66 \times ((66-6) + 66)) - (66/6+6) \\ &:= 7 + ((7 \times ((7+7) \times (77+7) + 7)) + (77/7)) \\ &:= 8 + (((8 \times 8 \times 8 \times (8+8)) + (88/8)) + 88) \\ &:= 9 + (((9/9+9 \times 9) + 9)^{(9+9)/9}) + 9 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8300 &:= 111 + (((1+1)^{1+1+1}) - (1+1+1)) \\ &:= 2 \times (2 \times (((2^{22/2} + 22) + 2) + 2) + 2) \\ &:= ((3/3-3) + 3^3) \times (333-3/3) \\ &:= (4 \times ((4+4) \times (4^4+4) - 4)) - 4 \\ &:= 5 \times (((55 \times (5 \times 5+5)) + 5) + 5) \\ &:= 6 \times (6+6+6) + (((6+6)/6)^{6/6+6+6}) \\ &:= (77/7+7+7) \times (7 \times 7 \times 7 - (77/7)) \\ &:= 88 \times 88 + ((8888+8)/(8+8)) \\ &:= (9/9+99) \times (((9+9)/9) + 9 \times 9) \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8301 &:= 111 + ((1+1) \times (((1+1)^{1+1+1}) - 1)) \\ &:= 222/2 + ((2^{22/2+2}) - 2) \\ &:= 3 + (3 \times ((33 \times (3 \times 3^3 + 3)) - (3+3))) \\ &:= 4/4 + ((4 \times ((4+4) \times (4^4+4) - 4)) - 4) \\ &:= 5/5 + (5 \times (((55 \times (5 \times 5+5)) + 5) + 5)) \\ &:= (((66-6/6) + 6) \times (666/6+6)) - 6 \\ &:= 77 + ((7 \times (7+7) \times (77+7)) - (7/7+7)) \\ &:= ((8+8) \times (8 \times 8 \times 8) - (88/8+8)) \\ &:= 9 + (9 \times (9 \times 99+9+9) + 999/9) \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8302 &:= 111 + (((1+1)^{1+1+1}) - 1) \\ &:= 22 + (2 \times (2 \times (2^{22/2} + 22))) \\ &:= 3 + (((3/3+33) \times ((3^3+3)/3)) + 3) \\ &:= (4 \times 4^4 \times (4+4)) + (444-4)/4 \\ &:= (5+5)/5 + (5 \times (((55 \times (5 \times 5+5)) + 5) + 5)) \\ &:= (6/6+6) \times ((66 \times (6+6+6)) - ((6+6)/6)) \\ &:= 77 + ((7 \times (7+7) \times (77+7)) - 7) \\ &:= (8 \times 8 \times 8 \times (8+8)) + (888-8)/8 \\ &:= (((99/9) + 9 \times 9)^{(9+9)/9}) - 9 \times (9+9) \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8303 &:= 111 + ((1+1)^{1+1+1}) \\ &:= 222/2 + (2^{22/2+2}) \\ &:= 3 + (((3/3-3) + 3^3) \times (333-3/3)) \\ &:= 444/4 + (4 \times 4^4 \times (4+4)) \\ &:= 5 + ((5+5)/5 \times ((5-5/5)^5 + 5^5)) \\ &:= 666/6 + (((6+6)/6)^{6/6+6+6}) \\ &:= 7/7 + (((7 \times (7+7) \times (77+7)) - 7) + 77) \\ &:= 888/8 + (8 \times 8 \times 8 \times (8+8)) \\ &:= 999/9 + (((9+9)/9)^{(9+9+9)/9}) \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8304 &:= 1 + (111 + ((1+1)^{1+1+1})) \\ &:= (22+2) \times (((2^{2+2} + 2)^2) + 22) \\ &:= 3 \times (((33/3+3)^3 - 3) + 3^3) \\ &:= 4 \times ((4+4) \times (4^4+4) - 4) \\ &:= 55 + ((5 \times (55 \times (5 \times 5+5))) - 5/5) \\ &:= (66 \times ((66-6) + 66)) - 6-6 \\ &:= 7 \times 77 + (7777 - (77+7)/7) \\ &:= (8+8) \times ((8 \times 8 \times 8 - 8/8) + 8) \\ &:= (9-9/9) \times (((9999-9)/9) - 9 \times 9) + 9 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8305 &:= 1 + (1 + (111 + ((1+1)^{1+1+1}))) \\ &:= 2 + ((2^{22/2+2}) + 222/2) \\ &:= 33/3 \times ((3^3+3 - 3/3) + 3^3) \\ &:= 4/4 + (4 \times ((4+4) \times (4^4+4) - 4)) \\ &:= 55 + (5 \times (55 \times (5 \times 5+5))) \\ &:= (66 \times ((66-6) + 66)) - 66/6 \\ &:= 7 \times 77 + (7777 - (77/7)) \\ &:= 8/8 + ((8+8) \times ((8 \times 8 \times 8 - 8/8) + 8)) \\ &:= 99/9 \times (((9 \times 9 \times 9 - 9/9) + 9) + 9) + 9 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8306 &:= 1 + (1 + (1 + (111 + ((1+1)^{1+1+1})))) \\ &:= 2 + ((2^{22/2+2}) + (222+2)/2) \\ &:= (3 \times ((33 \times (3 \times 3^3 + 3)) - 3)) - 3/3 \\ &:= (4+4)/4 + (4 \times ((4+4) \times (4^4+4) - 4)) \\ &:= 555 + ((5/5+5)^5 - 5 \times 5) \\ &:= (6-66)/6 + (66 \times ((66-6) + 66)) \\ &:= 7 \times 77 + (((7-77)/7) + 7777) \\ &:= (8+8)/8 + ((8+8) \times ((8 \times 8 \times 8 - 8/8) + 8)) \\ &:= (99 \times (((9+9+9)/9) + 9 \times 9)) - 9/9 - 9 \end{aligned}$$

$$\begin{aligned} \blacktriangleright 8307 &:= 111 + ((1+1) \times (1 + (1 + ((1+1)^{1+1+1})))) \\ &:= 2 + (((2^{22/2+2}) + 222/2) + 2) \\ &:= 3 \times ((33 \times (3 \times 3^3 + 3)) - 3) \\ &:= 4 + ((4 \times 4^4 \times (4+4)) + 444/4) \\ &:= 55 + ((5 \times (55 \times (5 \times 5+5))) + ((5+5)/5)) \\ &:= (((66-6/6) + 6) \times (666/6+6)) \\ &:= 77 + ((7 \times (7+7) \times (77+7)) - ((7+7)/7)) \\ &:= (88+8+8)/8 \times (8 \times (88-8) - 8/8) \\ &:= (99+9+9) \times (9 \times 9 - (9/9+9)) \end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8308 &:= 1 + (111 + ((1+1) \times (1 + (1 + ((1+1)^{1+11})))))) \\
&:= 2 \times ((2 \times (2 \times 2^2 - 2)) + 2222) \\
&:= 3/3 + (3 \times ((33 \times (3 \times 3^3 + 3)) - 3)) \\
&:= 4 + (4 \times ((4+4) \times (4^4 + 4) - 4)) \\
&:= (5+5)/5 + (((5-5/5)^5 + 5^5) + 5) \\
&:= (66+6/6) \times (((666+6)/6+6) + 6) \\
&:= 77 + ((7 \times (7+7) \times (77+7)) - 7/7) \\
&:= ((8+8) \times (8 \times 8 \times 8 + 8)) - (88+8)/8 \\
&:= 9 + (((((9/9+9 \times 9) + 9)^{(9+9)/9}) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8309 &:= 111 + ((1+1) \times (1 + (1 + (1 + ((1+1)^{1+11})))))) \\
&:= (22/2)^2 + (2 \times (2^{2 \times (2+2+2)} - 2)) \\
&:= 3 + (3 \times ((33 \times (3 \times 3^3 + 3)) - 3)) - 3/3 \\
&:= (4 \times (4+4) \times (4^4 + 4)) - 44/4 \\
&:= ((5+5+5) \times 555) - (55/5+5) \\
&:= (6/6+6) \times ((66 \times (6+6+6)) - 6/6) \\
&:= 77 + (7 \times (7+7) \times (77+7)) \\
&:= ((8+8) \times (8 \times 8 \times 8 + 8)) - 88/8 \\
&:= 9 + ((9/9+99) \times ((9+9)/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8310 &:= 11^{1+1} + (((1+1)^{1+1+11}) - (1+1+1)) \\
&:= 22 + (2 \times (2 \times ((2^{22/2} + 22) + 2))) \\
&:= 3 + (3 \times ((33 \times (3 \times 3^3 + 3)) - 3)) \\
&:= (4 - 44)/4 + (4 \times (4+4) \times (4^4 + 4)) \\
&:= (5+5+5) \times (555 - 5/5) \\
&:= (66 \times ((66-6) + 66)) - 6 \\
&:= 7/7 + ((7 \times (7+7) \times (77+7)) + 77) \\
&:= (8 - 88)/8 + ((8+8) \times (8 \times 8 \times 8 + 8)) \\
&:= 99 + (9 \times (9 \times 99 + 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8311 &:= 11^{1+1} + ((1+1) \times (((1+1)^{1+11}) - 1)) \\
&:= (22/2)^2 + ((2^{22/2+2}) - 2) \\
&:= 3 + ((3 \times ((33 \times (3 \times 3^3 + 3)) - 3)) + 3/3) \\
&:= (4 \times (4+4) \times (4^4 + 4)) - (4/4 + 4 + 4) \\
&:= 5 + (((5/5+5)^5 - 5 \times 5) + 555) \\
&:= 6/6 + ((66 \times ((66-6) + 66)) - 6) \\
&:= 77 + ((7 \times (7+7) \times (77+7)) + ((7+7)/7)) \\
&:= ((8+8) \times (8 \times 8 \times 8 + 8)) - (8/8+8) \\
&:= 9 + (((99/9) + 9 \times 9)^{(9+9)/9}) - 9 \times (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8312 &:= 11^{1+1} + (((1+1)^{1+1+11}) - 1) \\
&:= 2 \times (((2 \times 22)^2 - 2) + 2222) \\
&:= (3 \times (33 \times (3 \times 3^3 + 3))) - (3/3 + 3) \\
&:= (4+4) \times (4 \times (4^4 + 4) - 4/4) \\
&:= (5+5)/5 + ((5+5+5) \times (555 - 5/5)) \\
&:= (6+6)/6 + ((66 \times ((66-6) + 66)) - 6) \\
&:= 7 + ((7777 - 77/7) + 7 \times 77) \\
&:= ((8+8) \times (8 \times 8 \times 8 + 8)) - 8 \\
&:= (9 - 9/9) \times ((9999/9 - 9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8313 &:= 11^{1+1} + ((1+1)^{1+1+11}) \\
&:= (22/2)^2 + (2^{22/2+2}) \\
&:= 3 \times ((33/3+3)^3 + 3^3) \\
&:= 4 + ((4 \times (4+4) \times (4^4 + 4)) - 44/4) \\
&:= ((5+5+5) \times 555) - (55+5)/5 \\
&:= 6 + (((66-6/6) + 6) \times (666/6+6)) \\
&:= 7 \times 77 + (7777 - ((7+7+7)/7)) \\
&:= 8/8 + (((8+8) \times (8 \times 8 \times 8 + 8)) - 8) \\
&:= (9 \times 9 - 9) \times (99 + 9 + 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8314 &:= 1 + (11^{1+1} + ((1+1)^{1+1+11})) \\
&:= (22 \times ((22-2)^2 - 22)) - 2 \\
&:= 3/3 + (3 \times ((33/3+3)^3 + 3^3)) \\
&:= (4 \times (4+4) \times (4^4 + 4)) - ((4+4)/4+4) \\
&:= ((5+5+5) \times 555) - 55/5 \\
&:= (66 \times ((66-6) + 66)) - (6+6)/6 \\
&:= 7 \times 77 + (7777 - ((7+7)/7)) \\
&:= (8+8)/8 + (((8+8) \times (8 \times 8 \times 8 + 8)) - 8) \\
&:= 9 \times 9 \times (9 \times 9 + 9) + (((9+9)/9)^{9/9+9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8315 &:= 1 + (1 + (11^{1+1} + ((1+1)^{1+1+11}))) \\
&:= 2 + ((2^{22/2+2}) + (22/2)^2) \\
&:= (3 \times (33 \times (3 \times 3^3 + 3))) - 3/3 \\
&:= (4 \times (4+4) \times (4^4 + 4)) - 4/4 - 4 \\
&:= ((5+5+5) \times 555) - 5 - 5 \\
&:= (66 \times ((66-6) + 66)) - 6/6 \\
&:= 7 \times 77 + (7777 - 7/7) \\
&:= 88/8 + ((8+8) \times ((8 \times 8 \times 8 - 8/8) + 8)) \\
&:= (99 \times (((9+9+9)/9) + 9 \times 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8316 &:= 1 + (1 + (1 + (11^{1+1} + ((1+1)^{1+1+11})))) \\
&:= 22 \times ((22-2)^2 - 22) \\
&:= 3 \times (33 \times (3 \times 3^3 + 3)) \\
&:= (4 \times (4+4) \times (4^4 + 4)) - 4 \\
&:= 5/5 + (((5+5+5) \times 555) - (5+5)) \\
&:= 66 \times ((66-6) + 66) \\
&:= 7 \times 77 + 7777 \\
&:= ((88+8)/8) \times (8 \times 88 - (88/8)) \\
&:= 99 \times (((9+9+9)/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8317 &:= 11^{1+1} + ((1+1) \times (1 + (1 + ((1+1)^{1+11})))) \\
&:= 2/2 + (22 \times ((22-2)^2 - 22)) \\
&:= 3/3 + (3 \times (33 \times (3 \times 3^3 + 3))) \\
&:= 4/4 + ((4 \times (4+4) \times (4^4 + 4)) - 4) \\
&:= 5 \times 5 \times 5 + ((5+5)/5)^{(55+5+5)/5} \\
&:= 6/6 + (66 \times ((66-6) + 66)) \\
&:= 7/7 + (7777 + 7 \times 77) \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 + 8)) - (88/8)) \\
&:= 9/9 + (99 \times (((9+9+9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8318 &:= 1 + (11^{1+1} + ((1+1) \times (1 + (1 + ((1+1)^{1+11})))))) \\
&:= 2 + (22 \times ((22-2)^2 - 22)) \\
&:= 3 + ((3 \times (33 \times (3 \times 3^3 + 3))) - 3/3) \\
&:= (4 \times (4+4) \times (4^4 + 4)) - (4+4)/4 \\
&:= ((5+5+5) \times 555) - ((5+5)/5+5) \\
&:= (6+6)/6 + (66 \times ((66-6) + 66)) \\
&:= 7 \times 77 + (7777 + ((7+7)/7)) \\
&:= ((8+8) \times (8 \times 8 \times 8 + 8)) - (8+8)/8 \\
&:= 9 + (((9/9+99) \times ((9+9)/9) + 9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8319 &:= (1+1+1) \times (111 + ((1+1) \times 11^{1+1+1})) \\
&:= 2 + ((22 \times ((22-2)^2 - 22)) + 2/2) \\
&:= 3 + (3 \times (33 \times (3 \times 3^3 + 3))) \\
&:= (4 \times (4+4) \times (4^4 + 4)) - 4/4 \\
&:= ((5+5+5) \times 555) - (5/5+5) \\
&:= 666/6 + (6 \times 6 \times (6 \times 6 \times 6 + 6 + 6)) \\
&:= ((7+7) \times (7 \times (77+7) + 7)) - 77/7 \\
&:= ((8+8) \times (8 \times 8 \times 8 + 8)) - 8/8 \\
&:= 9 + ((9 \times (9 \times 99 + 9) + 999/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8320 &:= (1+1)^{11} + (((1+111)^{1+1})/(1+1)) \\
&:= ((22+2)^2) + (2 \times 2 \times 22)^2 \\
&:= 3 + ((3 \times (33 \times (3 \times 3^3 + 3))) + 3/3) \\
&:= 4 \times (4+4) \times (4^4 + 4) \\
&:= ((5+5+5) \times 555) - 5 \\
&:= ((6+6)/6)^6 + (((6+6)/6)^6 + 66) \\
&:= ((7+7)/7)^7 \times (77 - (77+7)/7) \\
&:= (8+8) \times (8 \times 8 \times 8 + 8) \\
&:= (9/9 - 9 \times 9) \times (9 - ((999+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8321 &:= 1 + ((1+1)^{11} + (((1+111)^{1+1})/(1+1))) \\
&:= 2/2 + ((2 \times 2 \times 22)^2 + ((22+2)^2)) \\
&:= 3 + (((3 \times (33 \times (3 \times 3^3 + 3))) - 3/3) + 3) \\
&:= 4/4 + (4 \times (4+4) \times (4^4 + 4)) \\
&:= 5/5 + (((5+5+5) \times 555) - 5) \\
&:= 6 + ((66 \times ((66-6) + 66)) - 6/6) \\
&:= 7 + ((7777 - ((7+7)/7)) + 7 \times 77) \\
&:= 8/8 + ((8+8) \times (8 \times 8 \times 8 + 8)) \\
&:= 9 + ((9-9/9) \times ((9999/9 - 9 \times 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8322 &:= (1+1+1) \times ((111 \times (1 + ((1+1) \times (1+11)))) - 1) \\
&:= 222 + ((2 \times 2 \times 22 + 2)^2) \\
&:= 3 + ((3 \times (33 \times (3 \times 3^3 + 3))) + 3) \\
&:= (4+4)/4 + (4 \times (4+4) \times (4^4 + 4)) \\
&:= (5+5)/5 + (((5+5+5) \times 555) - 5) \\
&:= 6 + (66 \times ((66-6) + 66)) \\
&:= 7 + ((7777 - 7/7) + 7 \times 77) \\
&:= (8+8)/8 + ((8+8) \times (8 \times 8 \times 8 + 8)) \\
&:= 9 + ((9 \times 9 - 9) \times (99 + 9 + 9) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8323 &:= (11 \times (1 + 11)) + (((1 + 1)^{1+1+11}) - 1) \\
&:= 2/2 + (((2 \times 2 \times 22 + 2)^2) + 222) \\
&:= 3 + (((3 \times (33 \times (3 \times 3^3 + 3))) + 3/3) + 3) \\
&:= 4 + ((4 \times (4 + 4) \times (4^4 + 4)) - 4/4) \\
&:= ((5 + 5 + 5) \times 555) - (5 + 5)/5 \\
&:= 6 + ((66 \times ((66 - 6) + 66)) + 6/6) \\
&:= 7 + (7777 + 7 \times 77) \\
&:= 88/8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) - 8) \\
&:= (9 - (9 + 9)/9) \times (((99 \times (99 + 9)) + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8324 &:= (11 \times (1 + 11)) + ((1 + 1)^{1+1+11}) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 222) \\
&:= (3 \times ((33 \times (3 \times 3^3 + 3)) + 3)) - 3/3 \\
&:= 4 + (4 \times (4 + 4) \times (4^4 + 4)) \\
&:= ((5 + 5 + 5) \times 555) - 5/5 \\
&:= ((6 + 6)/6) \times (((6 + 6)/6)^{6+6}) + 66 \\
&:= 7 + (7777 + 7 \times 77) + 7/7 \\
&:= 8 \times 8/(8 + 8) + ((8 + 8) \times (8 \times 8 \times 8 + 8)) \\
&:= 9 + (99 \times (((9 + 9 + 9)/9) + 9 \times 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8325 &:= 1 + ((11 \times (1 + 11)) + ((1 + 1)^{1+1+11})) \\
&:= 22 + ((2^{22/2+2}) + 222/2) \\
&:= 3 \times ((33 \times (3 \times 3^3 + 3)) + 3) \\
&:= 4 + ((4 \times (4 + 4) \times (4^4 + 4)) + 4/4) \\
&:= (5 + 5 + 5) \times 555 \\
&:= 666/6 \times (666/6 - 6 \times 6) \\
&:= 777/7 \times (77 - (7 + 7)/7) \\
&:= 888/8 \times (88/8 + 8 \times 8) \\
&:= 9 + (99 \times (((9 + 9 + 9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8326 &:= 1 + (1 + ((11 \times (1 + 11)) + ((1 + 1)^{1+1+11}))) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + 222) + 2) \\
&:= 3/3 + (3 \times ((33 \times (3 \times 3^3 + 3)) + 3)) \\
&:= 4 + ((4 \times (4 + 4) \times (4^4 + 4)) + (4 + 4)/4) \\
&:= 5/5 + ((5 + 5 + 5) \times 555) \\
&:= 6 + (((6 + 6)/6)^6 \times (((6 + 6)/6)^6 + 66)) \\
&:= 7 + (((7 + 7) \times (7 \times (77 + 7) + 7)) - (77/7)) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) - ((8 + 8)/8)) \\
&:= 9 + (99 \times (((9 + 9 + 9)/9) + 9 \times 9)) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8327 &:= 111 + ((1 + 1) \times (1 + (11 + ((1 + 1)^{1+1+11})))) \\
&:= 22/2 + (22 \times ((22 - 2)^2 - 22)) \\
&:= 33/3 + (3 \times (33 \times (3 \times 3^3 + 3))) \\
&:= 4 + (((4 \times (4 + 4) \times (4^4 + 4)) - 4/4) + 4) \\
&:= (5 + 5)/5 + ((5 + 5 + 5) \times 555) \\
&:= 66/6 + (66 \times ((66 - 6) + 66)) \\
&:= 7 \times 77 + (7777 + (77/7)) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) - 8/8) \\
&:= 99/9 + (99 \times (((9 + 9 + 9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8328 &:= (1 + 1 + 1) \times (1 + (111 \times (1 + ((1 + 1) \times (1 + 11)))))) \\
&:= 2 \times ((2 \times 22 + 2)^2 + 2^{22/2}) \\
&:= 3 + (3 \times ((33 \times (3 \times 3^3 + 3)) + 3)) \\
&:= 4 + ((4 \times (4 + 4) \times (4^4 + 4)) + 4) \\
&:= 5 + (((5 + 5 + 5) \times 555) - ((5 + 5)/5)) \\
&:= 6 + ((66 \times ((66 - 6) + 66)) + 6) \\
&:= ((7 + 7) \times (7 \times (77 + 7) + 7)) - (7 + 7)/7 \\
&:= 8 + ((8 + 8) \times (8 \times 8 \times 8 + 8)) \\
&:= 999/9 + (99 \times (((9 + 9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8329 &:= 1 + ((1 + 1 + 1) \times (1 + (111 \times (1 + ((1 + 1) \times (1 + 11)))))) \\
&:= 2 + ((22 \times ((22 - 2)^2 - 22)) + 22/2) \\
&:= 3 + ((3 \times ((33 \times (3 \times 3^3 + 3)) + 3)) + 3/3) \\
&:= 4 + (((4 \times (4 + 4) \times (4^4 + 4)) + 4/4) + 4) \\
&:= 5 + (((5 + 5 + 5) \times 555) - 5/5) \\
&:= 6 + (((66 \times ((66 - 6) + 66)) + 6/6) + 6) \\
&:= ((7 + 7) \times (7 \times (77 + 7) + 7)) - 7/7 \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) + 8/8) \\
&:= 9 + (9 \times (9 \times (9 \times 9 + 9) - 9) + 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8330 &:= (1 + (1 + 1 + 11)) \times (111 + ((11 + 11)^{1+1})) \\
&:= 2 + (2 \times ((2 \times 22 + 2)^2 + 2^{22/2})) \\
&:= 333 + (((33/3 + 3 \times 3)^3) - 3) \\
&:= (44 - 4)/4 + (4 \times (4 + 4) \times (4^4 + 4)) \\
&:= 5 + ((5 + 5 + 5) \times 555) \\
&:= 6 + (((6 + 6)/6) \times (((6 + 6)/6)^{6+6}) + 66) \\
&:= (7 + 7) \times (7 \times (77 + 7) + 7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) + ((8 + 8)/8)) \\
&:= (99 - 9/9) \times (((9 \times 9 - 9)/(9 + 9)) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8331 &:= 11 + ((1 + 1)^{11} + (((1 + 111)^{1+1})/(1 + 1))) \\
&:= 22/2 + ((2 \times 2 \times 22)^2 + ((22 + 2)^2)) \\
&:= 3 \times ((33/3 + 3)^3 + 33) \\
&:= 44/4 + (4 \times (4 + 4) \times (4^4 + 4)) \\
&:= 555 + (5/5 + 5)^5 \\
&:= 6 + (666/6 \times (666/6 - 6 \times 6)) \\
&:= 7/7 + ((7 + 7) \times (7 \times (77 + 7) + 7)) \\
&:= 88/8 + ((8 + 8) \times (8 \times 8 \times 8 + 8)) \\
&:= 9 \times (999 - 9 \times 9 + 9) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8332 &:= ((1111 \times (1 + 1 + 1 + 1 + 11)) - 1)/(1 + 1) \\
&:= 2 \times (((2 \times 22 + 2)^2 + 2^{22/2}) + 2) \\
&:= 3/3 + (3 \times ((33/3 + 3)^3 + 33)) \\
&:= (4 \times ((4 + 4) \times (4^4 + 4) + 4)) - 4 \\
&:= 5/5 + ((5/5 + 5)^5 + 555) \\
&:= (6^{6-6/6}) + (6666 + 6)/(6 + 6) \\
&:= 7 + (777/7 \times (77 - (7 + 7)/7)) \\
&:= ((88 + 8)/8) + ((8 + 8) \times (8 \times 8 \times 8 + 8)) \\
&:= 9 \times (999 - 9 \times 9 + 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8333 &:= (((1 + 1 + 1) \times 11111) - 1)/(1 + 1 + 1 + 1) \\
&:= 22 + (((2^{22/2+2}) - 2) + (22/2)^2) \\
&:= 333 + ((33/3 + 3 \times 3)^3) \\
&:= 4/4 + ((4 \times ((4 + 4) \times (4^4 + 4) + 4)) - 4) \\
&:= 555 + ((5/5 + 5)^5 + ((5 + 5)/5)) \\
&:= 6 + ((66 \times ((66 - 6) + 66)) + (66/6)) \\
&:= 7777 + ((7777 + 7)/(7 + 7)) \\
&:= 8 + (888/8 \times (88/8 + 8 \times 8)) \\
&:= 9 \times (999 - 9 \times 9 + 9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8334 &:= (1 + 1 + 1) \times ((1 + 11111)/(1 + 1 + 1 + 1)) \\
&:= (2 \times 22)^2 + (((2 \times 2 \times (22 - 2))^2) - 2) \\
&:= 3 + (3 \times ((33/3 + 3)^3 + 33)) \\
&:= (4 \times ((4 + 4) \times (4^4 + 4) + 4)) - (4 + 4)/4 \\
&:= 5 + (((5 + 5 + 5) \times 555) - 5/5) + 5 \\
&:= 6 + (((66 \times ((66 - 6) + 66)) + 6) + 6) \\
&:= 7 + ((7777 + (77/7)) + 7 \times 77) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) - ((8 + 8)/8)) + 8 \\
&:= 9 \times (999 - 9 \times 9 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8335 &:= (1 + 11)^{1+1} + (((1 + 1)^{1+1+11}) - 1) \\
&:= 22 + ((2^{22/2+2}) + (22/2)^2) \\
&:= 3 + ((3 \times ((33/3 + 3)^3 + 33)) + 3/3) \\
&:= (4 \times ((4 + 4) \times (4^4 + 4) + 4)) - 4/4 \\
&:= 5 + (((5 + 5 + 5) \times 555) + 5) \\
&:= 6 + (((66 \times ((66 - 6) + 66)) + 6/6) + 6) + 6 \\
&:= 7 + (((7 + 7) \times (7 \times (77 + 7) + 7)) - ((7 + 7)/7)) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) - 8/8) + 8 \\
&:= 9/9 + (9 \times (999 - 9 \times 9 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8336 &:= (1 + 11)^{1+1} + ((1 + 1)^{1+1+11}) \\
&:= 2 \times (2 \times ((2 \times (22 - 2))^2 + 22^2)) \\
&:= 3 + (((33/3 + 3 \times 3)^3) + 333) \\
&:= 4 \times ((4 + 4) \times (4^4 + 4) + 4) \\
&:= 5 + ((5/5 + 5)^5 + 555) \\
&:= ((6 + 6)/6) \times (((6 + 6)/6)^{6+6}) + 66 + 6 \\
&:= 7 + (((7 + 7) \times (7 \times (77 + 7) + 7)) - 7/7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) + 8) \\
&:= ((9 - (9 + 9)/9) + 9) \times (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8337 &:= 1 + ((1 + 11)^{1+1} + ((1 + 1)^{1+1+11})) \\
&:= (2/2 - 22) \times ((2/2 - (22 - 2)^2) + 2) \\
&:= 3 + ((3 \times ((33/3 + 3)^3 + 33)) + 3) \\
&:= 4/4 + (4 \times ((4 + 4) \times (4^4 + 4) + 4)) \\
&:= 5 + (((5/5 + 5)^5 + 555) + 5/5) \\
&:= (6/6 + 6) \times ((6 \times 6 \times 66 + 6)/(6 + 6)/6) \\
&:= 7 + ((7 + 7) \times (7 \times (77 + 7) + 7)) \\
&:= 88 \times (88 + 8) - 888/8 \\
&:= 9 + (99 \times (((9 + 9)/9) + 9 \times 9)) + 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8338 &:= 1 + (1 + ((1 + 11)^{1+1} + ((1 + 1)^{1+1+11}))) \\
&:= 22 + (22 \times ((22 - 2)^2 - 22)) \\
&:= 33/3 \times (((3^{3+3} - 3/3) + 3^3) + 3) \\
&:= (4 + 4)/4 + (4 \times ((4 + 4) \times (4^4 + 4) + 4)) \\
&:= 5 + (((5/5 + 5)^5 + ((5 + 5)/5)) + 555) \\
&:= 6 + (((6666 + 6)/(6 + 6) + (6^{6-6/6})) \\
&:= 7 + (((7 + 7) \times (7 \times (77 + 7) + 7)) + 7/7) \\
&:= ((8 - 888)/8) + 88 \times (88 + 8) \\
&:= 99/9 \times (((9 \times 9 + 9) + (99/9)) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8339 &:= 1 + (1 + (1 + ((1 + 11)^{1+1} + ((1 + 1)^{1+1+11}))) \\
&:= 2 + ((2/2 - 22) \times ((2/2 - (22 - 2)^2) + 2)) \\
&:= 3 + (((33/3 + 3 \times 3^3) + 333) + 3) \\
&:= 4 + ((4 \times ((4 + 4) \times (4^4 + 4) + 4)) - 4/4) \\
&:= ((5 + 5 + 5) \times (555 + 5/5)) - 5/5 \\
&:= 66666/6 - (66 \times (6 \times 6 + 6)) \\
&:= 7 + (777/7 \times (77 - (7 + 7)/7)) + 7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) + (88/8)) \\
&:= 9 + ((99 - 9/9) \times (((9 \times 9 - 9)/(9 + 9)) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8340 &:= (1 + 1 + 1 + 1 + 11) \times ((1 + 1111)/(1 + 1)) \\
&:= 2 + ((22 \times ((22 - 2)^2 - 22)) + 22) \\
&:= 3 \times (((33/3 + 3^3) + 33) + 3) \\
&:= 4 + (4 \times ((4 + 4) \times (4^4 + 4) + 4)) \\
&:= (5 + 5 + 5) \times (555 + 5/5) \\
&:= (6 + 6) \times (((666 - 6/6 - 6) + 6 \times 6) \\
&:= ((77 - 7)/7) + ((7 + 7) \times (7 \times (77 + 7) + 7)) \\
&:= ((88 + 8)/8) \times (8 \times 88 - (8/8 + 8)) \\
&:= 9 \times (999 - 9 \times 9 + 9) - (9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8341 &:= 1 + ((1 + 1 + 1 + 1 + 11) \times ((1 + 1111)/(1 + 1))) \\
&:= (22^2 - 2)/2 + ((2 \times 2 \times 22 + 2)^2) \\
&:= 3/3 + (3 \times (((33/3 + 3^3) + 33) + 3)) \\
&:= 4 + ((4 \times ((4 + 4) \times (4^4 + 4) + 4)) + 4/4) \\
&:= 5 + (((5/5 + 5)^5 + 555) + 5) \\
&:= 6 \times 666 + (66 \times 66 - (66/6)) \\
&:= 77/7 + ((7 + 7) \times (7 \times (77 + 7) + 7)) \\
&:= ((88 + 8) \times (88 - 8/8)) - 88/8 \\
&:= 9 \times (999 - 9 \times 9 + 9) - (9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8342 &:= 1 + (1 + ((1 + 1 + 1 + 1 + 11) \times ((1 + 1111)/(1 + 1)))) \\
&:= 22^2/2 + ((2 \times 2 \times 22 + 2)^2) \\
&:= (3^3 \times ((3 \times (3 \times 33 + 3)) + 3)) - 3/3 \\
&:= 4 + ((4 \times ((4 + 4) \times (4^4 + 4) + 4)) + (4 + 4)/4) \\
&:= 555 + ((5/5 + 5)^5 + (55/5)) \\
&:= 6 + (((6 + 6)/6)^{6/6+6+6} + (6 + 6) \times (6 + 6)) \\
&:= (77 + 7)/7 + ((7 + 7) \times (7 \times (77 + 7) + 7)) \\
&:= ((8/8 + 88) + 8) \times (88 - ((8 + 8)/8)) \\
&:= 9 \times (999 - 9 \times 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8343 &:= 111 + ((1 + 1) \times ((1 + 1) \times (11 + ((1 + 1)^{11} - 1)))) \\
&:= ((2 \times (2 \times 22 + 2))^2) - (22/2)^2 \\
&:= 3^3 \times ((3 \times (3 \times 33 + 3)) + 3) \\
&:= (4 - 4/4)^4 \times (444/4 - (4 + 4)) \\
&:= 555 + ((5/5 + 5)^5 + ((55 + 5)/5)) \\
&:= (6 \times 6 \times 6 \times (6 \times 6 + 6)) - ((6 \times 6)/(6 + 6))^6) \\
&:= 777/7 + (7 \times (7 + 7) \times (77 + 7)) \\
&:= 88 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) - 8/8) \\
&:= 9 \times (999 - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8344 &:= ((1 + 1)^{11} + ((11^{1+1+1+1} - 1))/(1 + 1)) \\
&:= (22^{2/2+2}) - ((2 \times (22 + 2))^2) \\
&:= 3/3 + (3^3 \times ((3 \times (3 \times 33 + 3)) + 3)) \\
&:= 4 + ((4 \times ((4 + 4) \times (4^4 + 4) + 4)) + 4) \\
&:= (55 + 5/5) \times (5 \times (5 \times 5 + 5) - 5/5) \\
&:= (6/6 + 6) \times (((66 \times (6 + 6 + 6)) - ((6 + 6)/6)) + 6) \\
&:= 7 + (((7 + 7) \times (7 \times (77 + 7) + 7)) + 7) \\
&:= 88 + (8 \times (8 \times 8 \times (8 + 8) + 8)) \\
&:= 9/9 + 9 \times (999 - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8345 &:= (1 + ((1 + 1)^{11} + (11^{1+1+1+1}))) / (1 + 1) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) - (22/2)^2) \\
&:= 3 + (3^3 \times ((3 \times (3 \times 33 + 3)) + 3)) - 3/3 \\
&:= 4 + (((4 \times ((4 + 4) \times (4^4 + 4) + 4)) + 4/4) + 4) \\
&:= 5 + ((5 + 5 + 5) \times (555 + 5/5)) \\
&:= 6 \times 666 + (66 \times 66 - (6/6 + 6)) \\
&:= 7 + (((7 + 7) \times (7 \times (77 + 7) + 7)) + 7/7) + 7) \\
&:= 8 + (88 \times (88 + 8) - 888/8) \\
&:= (9 + 9)/9 + 9 \times (999 - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8346 &:= (1 + 1 + 1) \times ((11 \times (11 \times (1 + (11 + 11)))) - 1) \\
&:= 2 + ((22^{2/2+2}) - ((2 \times (22 + 2))^2)) \\
&:= 3 + (3^3 \times ((3 \times (3 \times 33 + 3)) + 3)) \\
&:= (4 + 4)/4 \times (((4 - 4/4)^4 - 4) + (4 + 4)^4) \\
&:= 5^5/5 + ((5/5 + 5)^5 - 55) \\
&:= 6 \times 666 + (66 \times 66 - 6) \\
&:= 77 + (((7 + 7)/7)^{7-7/7+7}) + 77) \\
&:= 8 + (((8 - 888)/8) + 88 \times (88 + 8)) \\
&:= ((9 + 9 + 9)/9) + 9 \times (999 - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8347 &:= 11 + ((1 + 1)^{1+1} + ((1 + 1)^{1+1+11})) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) - (22/2)^2) + 2) \\
&:= 3 + (3^3 \times ((3 \times (3 \times 33 + 3)) + 3)) + 3/3) \\
&:= 44/4 + (4 \times ((4 + 4) \times (4^4 + 4) + 4)) \\
&:= (5^5 + 5)/5 + ((5/5 + 5)^5 - 55) \\
&:= 6/6 + ((6 \times 666 - 6) + 66 \times 66) \\
&:= ((77 - 7)/7 + 7) \times (7 \times (77 - 7) + 7/7) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) + (88/8) + 8) \\
&:= 9 + ((99/9) \times (((9 \times 9 + 9) + (99/9)) + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8348 &:= ((1 + 1)^{1+1+11}) + ((1 + 11) \times (1 + 1 + 11)) \\
&:= 2 \times ((2 \times (2^{22/2} + 2 \times (22 - 2))) - 2) \\
&:= 33 + ((3 \times (33 \times (3 \times 3^3 + 3))) - 3/3) \\
&:= ((4 + 4) \times (4 \times (4^4 + 4) + 4)) - 4 \\
&:= 5 \times 5 + (((5 + 5 + 5) \times 555) - ((5 + 5)/5)) \\
&:= (6 + 6)/6 + ((6 \times 666 - 6) + 66 \times 66) \\
&:= 7 + (((7 + 7) \times (7 \times (77 + 7) + 7)) + (77/7)) \\
&:= 8 + (((88 + 8)/8) \times (8 \times 88 - (8/8 + 8))) \\
&:= ((9 \times 9 + 9)/(9 + 9)) + 9 \times (999 - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8349 &:= 11 \times (11 \times ((1 + 1 + 1) \times (1 + (11 + 11)))) \\
&:= (2/2 + 2) \times ((22 + 2/2) \times (22/2)^2) \\
&:= 33 + (3 \times (33 \times (3 \times 3^3 + 3))) \\
&:= 4/4 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) - 4) \\
&:= 5 \times 5 + (((5 + 5 + 5) \times 555) - 5/5) \\
&:= 66/6 \times (((6 \times 6/(6 + 6))^6 - 6) + 6 \times 6) \\
&:= 77/7 \times (777 - (77/7 + 7)) \\
&:= 88/8 \times (8 \times (88 + 8) - (8/8 + 8)) \\
&:= 99/9 \times (9 \times (9 \times 9 - 9) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8350 &:= 1 + (11 \times (11 \times ((1 + 1 + 1) \times (1 + (11 + 11)))) \\
&:= ((2 \times (22 + 2)) + 2) \times (((22/2 + 2)^2) - 2) \\
&:= ((3/3 - 3) + 3^3) \times (333 + 3/3) \\
&:= ((4 + 4) \times (4 \times (4^4 + 4) + 4)) - (4 + 4)/4 \\
&:= 5 \times 5 + ((5 + 5 + 5) \times 555) \\
&:= 6 \times 666 + (66 \times 66 - ((6 + 6)/6)) \\
&:= 7 + ((7 \times (7 + 7) \times (77 + 7)) + 777/7) \\
&:= ((88 + 8) \times (88 - 8/8)) - (8 + 8)/8 \\
&:= 9 + (9 \times (999 - 9 \times 9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8351 &:= 1 + (1 + (11 \times (11 \times ((1 + 1 + 1) \times (1 + (11 + 11)))) \\
&:= ((2 \times (2 \times 22 + 2))^2) - (222/2 + 2) \\
&:= ((3 \times 3 + 3) \times (3^{3+3} - 33)) - 3/3 \\
&:= ((4 + 4) \times (4 \times (4^4 + 4) + 4)) - 4/4 \\
&:= 5 + (((5/5 + 5)^5 - 55) + 5^5/5) \\
&:= 6 \times 666 + (66 \times 66 - 6/6) \\
&:= 7 + (((7 + 7) \times (7 \times (77 + 7) + 7)) + 7) + 7) \\
&:= ((88 + 8) \times (88 - 8/8)) - 8/8 \\
&:= 9 + (9 \times (999 - 9 \times 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8352 &:= (1 + 1 + 1) \times (1 + (11 \times (11 \times (1 + (11 + 11)))) \\
&:= 2 \times (2 \times (2^{22/2} + 2 \times (22 - 2))) \\
&:= (3 \times 3 + 3) \times (3^{3+3} - 33) \\
&:= (4 + 4) \times (4 \times (4^4 + 4) + 4) \\
&:= 5 + (((5/5 + 5)^5 - 55) + (5^5 + 5)/5) \\
&:= (6 + 6) \times ((666 - 6) + 6 \times 6) \\
&:= (7 \times 7 - 7/7) \times ((7 \times (7 + 7) - 7/7) + 77) \\
&:= (88 + 8) \times (88 - 8/8) \\
&:= 9 + 9 \times (999 - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8353 &:= ((11 + (11 - 1 - 1)^{1+1})^{1+1}) - 111 \\
&:= ((2 \times (2 \times 22 + 2))^2) - 222/2 \\
&:= 3/3 + ((3 \times 3 + 3) \times (3^{3+3} - 33)) \\
&:= 4/4 + ((4 + 4) \times (4 \times (4^4 + 4) + 4)) \\
&:= 55 + ((5 + 5)/5 \times ((5 - 5/5)^5 + 5^5)) \\
&:= 6/6 + (6 \times 666 + 66 \times 66) \\
&:= ((7/7 - 77) \times ((7 - 777)/7)) - 7 \\
&:= 8/8 + ((88 + 8) \times (88 - 8/8)) \\
&:= 9 + (9 \times (999 - 9 \times 9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8354 &:= (1 + 1) \times (((1 + 1)^{1+11}) + (11 - 1 - 1)^{1+1}) \\
&:= 2 + (2 \times (2 \times (2^{22/2} + 2 \times (22 - 2)))) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - 33)) - 3/3) \\
&:= (4 + 4)/4 + ((4 + 4) \times (4 \times (4^4 + 4) + 4)) \\
&:= 5 + (((5 + 5 + 5) \times 555) - 5/5) + 5 \times 5 \\
&:= (6 + 6)/6 + (6 \times 666 + 66 \times 66) \\
&:= 7777 + (7 \times (77 + 7) - (77/7)) \\
&:= (8 + 8)/8 + ((88 + 8) \times (88 - 8/8)) \\
&:= 99/9 + 9 \times (999 - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8355 &:= 1 + ((1 + 1) \times (((1 + 1)^{1+11}) + (11 - 1 - 1)^{1+1})) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) - 222/2) \\
&:= 3 + ((3 \times 3 + 3) \times (3^{3+3} - 33)) \\
&:= 4 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) - 4/4) \\
&:= 5 + (((5 + 5 + 5) \times 555) + 5 \times 5) \\
&:= ((6 + 6) \times 666) + 66 \times 66 / (6 + 6) \\
&:= (7/7 + 7 + 7) \times ((7 \times 77 + (77/7)) + 7) \\
&:= 88 + ((8 \times (8 \times 8 \times (8 + 8) + 8)) + (88/8)) \\
&:= ((9/9 + 9 \times 9) \times (999/9 - 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8356 &:= ((1 + (1 + (11 - 1)^{1+1}))^{1+1}) - (1 + 1)^{11} \\
&:= 2^{2 \times (2+2)} + ((2 \times 2 \times 22 + 2)^2) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - 33)) + 3/3) \\
&:= 4 + ((4 + 4) \times (4 \times (4^4 + 4) + 4)) \\
&:= 5 \times 5 + ((5/5 + 5)^5 + 555) \\
&:= 6 + ((66 \times 66 - ((6 + 6)/6)) + 6 \times 666) \\
&:= 7 + (77/7 \times (777 - (77/7 + 7))) \\
&:= 8 \times 8 / (8 + 8) + ((88 + 8) \times (88 - 8/8)) \\
&:= 9 \times (9 \times 99 + 9) + (((9 + 9)/9)^{9-9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8357 &:= 1 + (((1 + (1 + (11 - 1)^{1+1}))^{1+1}) - (1 + 1)^{11}) \\
&:= ((2/2 - 22) \times (2 - (22 - 2)^2)) - 2/2 \\
&:= (33/3)^3 + ((33 \times ((3 + 3)^3 - 3)) - 3) \\
&:= 4 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) + 4/4) \\
&:= ((5 + 5)/5)^5 + ((5 + 5 + 5) \times 555) \\
&:= 6 + ((6 \times 666 - 6/6) + 66 \times 66) \\
&:= 77 + ((7 \times ((7 + 7) \times (77 + 7) + 7)) - 7/7) \\
&:= 8 + (88/8 \times (8 \times (88 + 8) - (8/8 + 8))) \\
&:= ((9 + 9) \times (9 - 9 \times (9 + 9))) + (99999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8358 &:= (1 + 1) \times (((1 + 111)^{1+1}) - 1) / (1 + 1 + 1) - (1 + 1) \\
&:= (2/2 - 22) \times (2 - (22 - 2)^2) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - 33)) + 3) \\
&:= 4 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) + (4 + 4)/4) \\
&:= (5 - (5 + 5)/5) \times (5 \times 555 + (55/5)) \\
&:= 6 + (6 \times 666 + 66 \times 66) \\
&:= 77 + (7 \times ((7 + 7) \times (77 + 7) + 7)) \\
&:= 88 \times (88 + 8) - ((8 + 8)/8 + 88) \\
&:= 9 + ((99/9) \times (9 \times (9 \times 9 - 9) + 999/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8359 &:= (((1 + 1) \times ((1 + 111)^{1+1}) - 11) / (1 + 1 + 1)) \\
&:= 2/2 + ((2/2 - 22) \times (2 - (22 - 2)^2)) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - 33)) + 3/3) + 3 \\
&:= 4 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) - 4/4) + 4 \\
&:= (55 \times (5 \times (5 \times 5 + 5) + ((5 + 5)/5))) - 5/5 \\
&:= 6 + ((6 \times 666 + 66 \times 66) + 6/6) \\
&:= ((77 - 7/7) \times 777/7) - 7/7 \\
&:= 88 \times (88 + 8) - (8/8 + 88) \\
&:= 99 + (9 \times (999 - 9 \times 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8360 &:= (1 + 1) \times ((111 - 1) \times (1 + (111/(1 + 1 + 1)))) \\
&:= 22 \times (((22 - 2)^2 - 22) + 2) \\
&:= (33/3)^3 + (33 \times ((3 + 3)^3 - 3)) \\
&:= 4 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) + 4) \\
&:= 55 \times (5 \times (5 \times 5 + 5) + ((5 + 5)/5)) \\
&:= ((6 + 6)/6 + 6) \times ((6666/6) - 66) \\
&:= (7/7 - 77) \times ((7 - 777)/7) \\
&:= 88 \times (88 - 8/8 + 8) \\
&:= 99 + (9 \times (999 - 9 \times 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8361 &:= (1 + 1 + 11)^{1+1} + ((1 + 1)^{1+1+11}) \\
&:= ((22/2 + 2)^2) + (2^{22/2+2}) \\
&:= 3 \times ((3^3 \times (3 \times 33 + 3)) + 33) \\
&:= 4 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) + 4/4) + 4 \\
&:= 5 + (((5/5 + 5)^5 + 555) + 5 \times 5) \\
&:= 6 + (66 \times 66 / (6 + 6) + ((6 + 6) \times 666)) \\
&:= 7/7 + ((7/7 - 77) \times ((7 - 777)/7)) \\
&:= 8/8 + (88 \times (88 - 8/8 + 8)) \\
&:= 99 + 9 \times (999 - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8362 &:= (1 + 1) \times (((1 + 111)^{1+1}) - 1) / (1 + 1 + 1) \\
&:= 2 + (22 \times (((22 - 2)^2 - 22) + 2)) \\
&:= 3/3 + (3 \times ((3^3 \times (3 \times 33 + 3)) + 33)) \\
&:= 44 + ((4 \times (4 + 4) \times (4^4 + 4)) - (4 + 4)/4) \\
&:= 5 + (((5 + 5 + 5) \times 555) + ((5 + 5)/5)^5) \\
&:= (6 \times 6 + 6/6) \times (((66 - 6)/6) + 6 \times 6 \times 6) \\
&:= 7 + ((7/7 + 7 + 7) \times ((7 \times 77 + (77/7)) + 7)) \\
&:= (8 + 8)/8 + (88 \times (88 - 8/8 + 8)) \\
&:= 9/9 + (9 \times (999 - 9 \times 9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8363 &:= (1 + ((1 + 1) \times ((1 + 111)^{1+1}))) / (1 + 1 + 1) \\
&:= 2 + (((22/2 + 2)^2) + (2^{22/2+2})) \\
&:= 3 + ((33 \times ((3 + 3)^3 - 3)) + (33/3)^3) \\
&:= 44 + ((4 \times (4 + 4) \times (4^4 + 4)) - 4/4) \\
&:= 555 + ((5/5 + 5)^5 + ((5 + 5)/5)^5) \\
&:= 66/6 + (6 \times 666 + 66 \times 66) \\
&:= 7777 + (7 \times (77 + 7) - ((7 + 7)/7)) \\
&:= 88/8 + ((88 + 8) \times (88 - 8/8)) \\
&:= 9 + (9 \times (999 - 9 \times 9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8364 &:= 1 + ((1 + ((1 + 1) \times ((1 + 111)^{1+1}))) / (1 + 1 + 1)) \\
&:= 2 \times ((2 \times (2^{22/2} + 2 \times 22)) - 2) \\
&:= (3/3 + 33) \times (3 \times 3 \times 3^3 + 3) \\
&:= 44 + (4 \times (4 + 4) \times (4^4 + 4)) \\
&:= (5 - 5/5) \times (5^5 - (((5 - 5/5)^5 + 5) + 5)) \\
&:= 6 + ((6 \times 666 + 66 \times 66) + 6) \\
&:= 7777 + (7 \times (77 + 7) - 7/7) \\
&:= ((88 + 8)/8) \times ((8 \times 88 - 8) + 8/8) \\
&:= (9/9 + 9 \times 9) \times (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8365 &:= 1 + (1 + ((1 + ((1 + 1) \times ((1 + 111)^{1+1}))) / (1 + 1 + 1))) \\
&:= 2 \times 222 + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= 3/3 + ((3/3 + 33) \times (3 \times 3 \times 3^3 + 3)) \\
&:= 44 + ((4 \times (4 + 4) \times (4^4 + 4)) + 4/4) \\
&:= 5 + (55 \times (5 \times (5 \times 5 + 5) + ((5 + 5)/5))) \\
&:= (6/6 + 6) \times (((66 \times (6 + 6 + 6)) + 6/6) + 6) \\
&:= 7777 + 7 \times (77 + 7) \\
&:= 8888 - (8 \times 8 \times 8 + 88/8) \\
&:= (((99/9) + 9 \times 9)^{9+9/9}) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8366 &:= ((1 + 1) \times 1111) + ((1 + 1 + 1) \times (1 + 1)^{11}) \\
&:= (2 \times (2 \times (2^{22/2} + 2 \times 22))) - 2 \\
&:= 33 + (((33/3 + 3 \times 3)^3) + 333) \\
&:= (4 \times (4^4 \times (4 + 4) + 44)) - (4 + 4)/4 \\
&:= 5 + (((5/5 + 5)^5 + 555) + 5 \times 5) + 5 \\
&:= 6 + (((6 + 6)/6 + 6) \times ((6666/6) - 66)) \\
&:= 7/7 + (7777 + 7 \times (77 + 7)) \\
&:= (8/8 + 88) \times ((88 - ((8 + 8)/8)) + 8) \\
&:= (9 \times (9 \times (99 + 9 + 9))) - 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8367 &:= 11111 - (1 + 1 + 1 + 11)^{1+1+1} \\
&:= (2 \times (2 \times (2^{22/2} + 2 \times 22))) - 2/2 \\
&:= 3 + ((3/3 + 33) \times (3 \times 3 \times 3^3 + 3)) \\
&:= (4 \times (4^4 \times (4 + 4) + 44)) - 4/4 \\
&:= 5^5 + (5555 - (5^5 + 5)/5 + 5) \\
&:= 6 + ((66 \times 66 / (6 + 6) + ((6 + 6) \times 666)) + 6) \\
&:= 7 + ((7/7 - 77) \times ((7 - 777)/7)) \\
&:= 8 + (88 \times (88 + 8) - (8/8 + 88)) \\
&:= (9 \times (9 \times (99 + 9 + 9))) + ((9 - 9999)/9)
\end{aligned}$$

- **8368** := $1 + (11111 - (1 + 1 + 1 + 11)^{1+1+1})$
:= $2 \times (2 \times (2^{22/2} + 2 \times 22))$
:= $(33/3 \times ((3^{3+3} - 3/3) + 33)) - 3$
:= $4 \times (4^4 \times (4 + 4) + 44)$
:= $5^5 + (((5 - 5^5)/(5 + 5)) + 5555)$
:= $6 + ((6 \times 6 + 6/6) \times (((66 - 6)/6) + 6 \times 6 \times 6))$
:= $((7 + 7 + 7) \times 7 \times (7 \times 7 + 7) + 7) - 77/7$
:= $8 + (88 \times (88 - 8/8 + 8))$
:= $9 + ((9 \times (999 - 9 \times 9) - ((9 + 9)/9)) + 99)$
- **8369** := $(1 + 1) \times 1111 + ((1 + 1 + 1) \times (1 + (1 + 1)^{11}))$
:= $2/2 + (2 \times (2 \times (2^{22/2} + 2 \times 22)))$
:= $((3 \times (3 + 3) + 3)^3) - ((33 \times 3^3) + 3/3)$
:= $4/4 + (4 \times (4^4 \times (4 + 4) + 44))$
:= $55 + (((5 + 5 + 5) \times 555) - (55/5))$
:= $(6 \times (((6 \times 6/(6 + 6))^6) + 666)) - 6/6$
:= $77 + ((7 \times ((7 + 7) \times (77 + 7) + 7)) + (77/7))$
:= $8 + ((88 \times (88 - 8/8 + 8)) + 8/8)$
:= $((9 + 9)/9)^9 + (9 \times (9 \times 99 - (9 + 9)))$
- **8370** := $(1 + 1) \times (111 + ((1 + 1) \times ((1 + 1)^{11} - 11)))$
:= $2 + (2 \times (2 \times (2^{22/2} + 2 \times 22)))$
:= $3 \times ((3^3 + 3) \times (3 \times (3^3 + 3) + 3))$
:= $(4 + 4)/4 + (4 \times (4^4 \times (4 + 4) + 44))$
:= $5^5 + (5 \times ((5 - 5/5)^5 + 5 \times 5))$
:= $6 \times (((6 \times 6/(6 + 6))^6) + 666)$
:= $((7 + 7)/7)^7 + 7 \times (((7 \times 7 - 7/7) + 7) + 7)$
:= $8 + ((88 \times (88 - 8/8 + 8)) + ((8 + 8)/8))$
:= $9 + (9 \times (999 - 9 \times 9) + 99)$
- **8371** := $1 + ((1 + 1) \times (111 + ((1 + 1) \times ((1 + 1)^{11} - 11))))$
:= $2 + ((2 \times (2 \times (2^{22/2} + 2 \times 22))) + 2/2)$
:= $33/3 \times ((3^{3+3} - 3/3) + 33)$
:= $4 + ((4 \times (4^4 \times (4 + 4) + 44)) - 4/4)$
:= $5^5/5 + ((5/5 + 5)^5 - (5 \times 5 + 5))$
:= $6/6 + (6 \times (((6 \times 6/(6 + 6))^6) + 666))$
:= $7 + ((7777 - 7/7) + 7 \times (77 + 7))$
:= $88/8 + (88 \times (88 - 8/8 + 8))$
:= $9 + ((9 \times (999 - 9 \times 9) + 99) + 9/9)$
- **8372** := $(1 + (11 + 11)) \times (1 + (11 \times (11 \times (1 + 1 + 1))))$
:= $2 \times (2 \times (2^{22/2} + 2 \times 22)) + 2$
:= $(3^3 - 3/3) \times (333 - 33/3)$
:= $4 + (4 \times (4^4 \times (4 + 4) + 44))$
:= $(5^5 + 5)/5 + ((5/5 + 5)^5 - (5 \times 5 + 5))$
:= $6 \times (6 \times 6 - 6) + (((6 + 6)/6)^{6/6+6+6})$
:= $7 + (7777 + 7 \times (77 + 7))$
:= $8 + (((88 + 8)/8) \times ((8 \times 88 - 8) + 8/8))$
:= $((9/9 + 9 \times 9) + 9) \times ((99/9) + 9 \times 9)$
- **8373** := $1 + ((1 + (11 + 11)) \times (1 + (11 \times (11 \times (1 + 1 + 1))))$
:= $2/2 + (2 \times (2 \times (2^{22/2} + 2 \times 22) + 2))$
:= $3 + (3 \times ((3^3 + 3) \times (3 \times (3^3 + 3) + 3)))$
:= $4 + ((4 \times (4^4 \times (4 + 4) + 44)) + 4/4)$
:= $(5 \times ((55 \times (5 \times 5 + 5)) + 5 \times 5)) - (5 + 5)/5$
:= $66 + (((66 - 6/6) + 6) \times (666/6 + 6))$
:= $7 + ((7777 + 7 \times (77 + 7)) + 7/7)$
:= $88 \times (88 + 8) - (88/8 + 8 \times 8)$
:= $9 + ((9/9 + 9 \times 9) \times (999/9 - 9))$
- **8374** := $11 + ((1 + ((1 + 1) \times ((1 + 111)^{1+1}))) / (1 + 1 + 1))$
:= $(2 \times (2 \times (2 \times (22 + 2)^2 - 22))) - 2$
:= $3 + (33/3 \times ((3^{3+3} - 3/3) + 33))$
:= $4 + ((4 \times (4^4 \times (4 + 4) + 44)) + (4 + 4)/4)$
:= $(5 \times ((55 \times (5 \times 5 + 5)) + 5 \times 5)) - 5/5$
:= $666 + (((6^6 - 6/6) - ((6 + 6)/6 + 66))$
:= $7 + (((7/7 - 77) \times ((7 - 777)/7)) + 7)$
:= $8888 - (8 \times 8 \times 8 + (8 + 8)/8)$
:= $9 + (((99/9) + 9 \times 9)^{(9+9)/9}) - 99$
- **8375** := $(1 + 1)^{11} + (111 \times (1 + (1 + 111)/(1 + 1)))$
:= $(2 \times (2 \times (2 \times (22 + 2)^2 - 22))) - 2/2$
:= $((3/3 + 3)^3) + 3 \times (3 - 3/3 + 3)^3$
:= $4 + (((4 \times (4^4 \times (4 + 4) + 44)) - 4/4) + 4)$
:= $5 \times ((55 \times (5 \times 5 + 5)) + 5 \times 5)$
:= $666 + (((6^6 - 6/6) - (66 + 6/6))$
:= $(77/7 + 7 + 7) \times (7 \times 7 \times 7 - (7/7 + 7))$
:= $8888 - (8 \times 8 \times 8 + 8/8)$
:= $9 + ((9 \times (9 \times (99 + 9 + 9))) - 9999/9)$
- **8376** := $(1 + 11) \times (((1 + 1 + 1) \times (11 + (1 + 1) \times 111)) - 1)$
:= $2 \times (2 \times (2 \times (22 + 2)^2 - 22))$
:= $33 + (3^3 \times ((3 \times (3 \times 33 + 3)) + 3))$
:= $4 + ((4 \times (4^4 \times (4 + 4) + 44)) + 4)$
:= $5^5/5 + ((5/5 + 5)^5 - 5 \times 5)$
:= $666 + (((6^6 - 6/6) - 66)$
:= $77/7 + (7777 + 7 \times (77 + 7))$
:= $8888 - 8 \times 8 \times 8$
:= $((9 - 9/9) \times 9999/9) - ((9 + 9)/9)^9$
- **8377** := $(1 + (((1 + 1 + 1) \times (111 - 1))^{1+1})) / (1 + 1 + 11)$
:= $2/2 + (2 \times (2 \times (2 \times (22 + 2)^2 - 22)))$
:= $3 + ((33/3 \times ((3^{3+3} - 3/3) + 33)) + 3)$
:= $4 + (((4 \times (4^4 \times (4 + 4) + 44)) + 4/4) + 4)$
:= $(5^5 + 5)/5 + ((5/5 + 5)^5 - 5 \times 5)$
:= $6/6 + (((6^6 - 6/6) - 66) + 666)$
:= $(7 + 7 + 7) \times (7 \times (7 \times 7 + 7) + 7) - (7 + 7)/7$
:= $8/8 + (8888 - 8 \times 8 \times 8)$
:= $9999 + (((9 + 9) \times (9 - 99)) - ((9 + 9)/9))$
- **8378** := $((1 + 1)^{1+1+11}) + (((1 + 1)^{11} - (1 + 1))/11)$
:= $2 + (2 \times (2 \times (2 \times (22 + 2)^2 - 22)))$
:= $3 + (((3/3 + 3)^3) + 3) \times (3 - 3/3 + 3)^3$
:= $(4 + 4)/4 \times ((4444 - 4^4) + 4/4)$
:= $55 + (((5 + 5 + 5) \times 555) - ((5 + 5)/5))$
:= $666 + (((6^6 - 6/6) - ((6 + 6)/6)^6)$
:= $(777/7 + 7) \times ((7/7 - 7) + 77)$
:= $(8 + 8)/8 + (8888 - 8 \times 8 \times 8)$
:= $9 + ((9 \times (9 \times 99 - (9 + 9))) + ((9 + 9)/9)^9)$
- **8379** := $(11 + (11 - 1)) \times (((1 + 1) \times (11 - 1))^{1+1} - 1)$
:= $(2/2 - 22) \times (2/2 - (22 - 2)^2)$
:= $(33 \times ((3^{3+3} + 33)/3)) - 3$
:= $44/4 + (4 \times (4^4 \times (4 + 4) + 44))$
:= $55 + (((5 + 5 + 5) \times 555) - 5/5)$
:= $(6/6 + 6) \times (((6 \times 6 \times 66 + 6)/(6 + 6)/6) + 6)$
:= $(7 + 7 + 7) \times 7 \times (7 \times 7 + 7) + 7$
:= $8 + ((88 \times (88 - 8/8 + 8)) + (88/8))$
:= $9999 + ((9 + 9) \times (9 - 99))$
- **8380** := $(11 - 1) \times ((1 + 1)^{11} - (11 \times (111 - 1)))$
:= $2 \times ((2 \times (2 \times (22 + 2)^2 - 22)) + 2)$
:= $3/3 + ((33 \times ((3^{3+3} + 33)/3)) - 3)$
:= $44 + (4 \times ((4 + 4) \times (4^4 + 4) + 4))$
:= $55 + ((5 + 5 + 5) \times 555)$
:= $((6 + 6)/6)^6 + (66 \times ((66 - 6) + 66))$
:= $7/7 + (7 + 7 + 7) \times (7 \times (7 \times 7 + 7) + 7)$
:= $8888 + (8 \times 8/(8 + 8) - 8 \times 8 \times 8)$
:= $99 + (((9/9 + 9 \times 9) + 9)^{(9+9)/9})$
- **8381** := $1 + ((11 - 1) \times ((1 + 1)^{11} - (11 \times (111 - 1))))$
:= $2 + ((2/2 - 22) \times (2/2 - (22 - 2)^2))$
:= $(33 \times ((3^{3+3} + 33)/3)) - 3/3$
:= $44 + ((4 \times ((4 + 4) \times (4^4 + 4) + 4)) + 4/4)$
:= $(5/5 + 5)^5 + (55 \times (55/5))$
:= $66 + ((66 \times ((66 - 6) + 66)) - 6/6)$
:= $(7 + 7)/7 + (7 + 7 + 7) \times (7 \times (7 \times 7 + 7) + 7)$
:= $8 + (88 \times (88 + 8) - (88/8 + 8 \times 8))$
:= $9 + (((9/9 + 9 \times 9) + 9) \times ((99/9) + 9 \times 9))$
- **8382** := $11 \times ((1 + 1 + 1) \times (1 + (11 \times (1 + (11 + 11))))$
:= $(22/2 + 22) \times (2^{2 \times (2+2)} - 2)$
:= $33 \times ((3^{3+3} + 33)/3)$
:= $((4 + 4)/4 - 4^4) \times (44/4 - 44)$
:= $(5/5 + 5)^5 + ((55 \times 55 + 5)/5)$
:= $66 + (66 \times ((66 - 6) + 66))$
:= $77/7 \times (777 - (7/7 + 7 + 7))$
:= $((8 + 8)/8) + 8 \times 8 \times (8 \times (8 + 8) - 8/8)$
:= $9 + (((9/9 + 9 \times 9) \times (999/9 - 9)) + 9)$

- 8383 := $1 + (11 \times ((1 + 1 + 1) \times (1 + (11 \times (1 + (11 + 11))))))$
:= $((2 \times (2 \times 22 + 2))^2) - (2/2 + 2)^{2+2}$
:= $3/3 + (33 \times ((3^{3+3} + 33)/3))$
:= $((4^4 - 4)/4) + (4 \times (4 + 4) \times (4^4 + 4))$
:= $(5/5 + 5)^5 + (((55 \times 55 + 5) + 5)/5)$
:= $66 + ((66 \times ((66 - 6) + 66)) + 6/6)$
:= $(77 - 7/7 + 7) \times (7777/77)$
:= $88 \times (88 + 8) - (8/8 + 8 \times 8)$
:= $((9 + 9)/9) + 9 \times 9 \times ((9 + 9)/9 + 99)$
- 8384 := $(1 + 1)^{11} + (11 \times (((1 + 1) \times (1 + 11))^{1+1}))$
:= $2 \times (2 \times (((2 \times 22 + 2)^2 - 22) + 2))$
:= $3 + ((33 \times ((3^{3+3} + 33)/3)) - 3/3)$
:= $4 \times ((4^4 \times (4 + 4) + 44) + 4)$
:= $(5 - 5/5) \times (5^5 - ((5 - 5/5)^5 + 5))$
:= $((6 + 6)/6)^6 \times (66 - 6/6 + 66)$
:= $7 + (((7 + 7 + 7) \times 7 \times (7 \times 7 + 7) + 7) - ((7 + 7)/7))$
:= $88 \times (88 + 8) - 8 \times 8$
:= $9 \times 9 \times 99 + ((9 \times 9 \times 9 \times 9)/9 + 9)$
- 8385 := $1 + ((1 + 1)^{11} + (11 \times (((1 + 1) \times (1 + 11))^{1+1})))$
:= $2 + (((2 \times (2 \times 22 + 2))^2) - (2/2 + 2)^{2+2})$
:= $3 + (33 \times ((3^{3+3} + 33)/3))$
:= $4/4 + (4 \times ((4^4 \times (4 + 4) + 44) + 4))$
:= $5 + (((5 + 5 + 5) \times 555) + 55)$
:= $(66 - 6/6) \times (((666/6 + 6) + 6) + 6)$
:= $7 + ((777/7 + 7) \times ((7/7 - 7) + 77))$
:= $8/8 + (88 \times (88 + 8) - 8 \times 8)$
:= $9 \times 9 \times (99 + 9) - (99 \times 99/(9 + 9 + 9))$
- 8386 := $(1 + ((1 + 1) \times (1 + 1 + 1))) \times ((11 \times (111 - 1 - 1)) - 1)$
:= $2 + (2 \times (2 \times (((2 \times 22 + 2)^2 - 22) + 2)))$
:= $3 + ((33 \times ((3^{3+3} + 33)/3)) + 3/3)$
:= $4 + (((4 + 4)/4 - 4^4) \times (44/4 - 44))$
:= $55 + ((5/5 + 5)^5 + 555)$
:= $6 \times 66 + (((6 + 6) \times 666) - ((6 + 6)/6))$
:= $7 + ((7 + 7 + 7) \times 7 \times (7 \times 7 + 7) + 7)$
:= $(8 + 8)/8 + (88 \times (88 + 8) - 8 \times 8)$
:= $(9 - (9 + 9)/9) \times (((99 \times (99 + 9)) + 9)/9 + 9)$
- 8387 := $((1 + 1)^{1+1+11}) + ((1 + 1 + 1 + 11)^{1+1} - 1)$
:= $22/2 + (2 \times (2 \times ((2 \times 22 + 2)^2 - 22)))$
:= $(33/3)^3 + ((3 \times 3^3 + 3)^{3-3/3})$
:= $4 + ((4 \times (4 + 4) \times (4^4 + 4)) + ((4^4 - 4)/4))$
:= $5 + (((55 \times 55 + 5)/5) + (5/5 + 5)^5)$
:= $6 \times 66 + (((6 + 6) \times 666) - 6/6)$
:= $((77 - 7/7) \times 777/7) - 7 \times 7$
:= $88/8 + (8888 - 8 \times 8 \times 8)$
:= $9 + (((9 \times (9 \times 99 - (9 + 9))) + ((9 + 9)/9)^9) + 9)$
- 8388 := $(1 + 1 + 1) \times ((1 + 11) \times (11 + (1 + 1) \times 111))$
:= $(2^{2+2} + 2) \times (2 \times 222 + 22)$
:= $(3 \times 3 + 3) \times ((3^{3+3} - 33) + 3)$
:= $4 + (4 \times ((4^4 \times (4 + 4) + 44) + 4))$
:= $(5/5 + 5) \times (5 \times (5 \times 55 + 5) - ((5 + 5)/5))$
:= $6 \times ((6 \times (6 \times 6 \times 6 + 6)) + 66)$
:= $(7 + 7) \times (7 + 7) + (((7 + 7)/7)^{7-7/7+7})$
:= $(8/8 + 8) \times ((88/((8 + 8)/8)) + 888)$
:= $9 + (((9 + 9) \times (9 - 99)) + 9999)$
- 8389 := $1 + ((1 + 1 + 1) \times ((1 + 11) \times (11 + (1 + 1) \times 111)))$
:= $((22 - 2)^2 \times (22 - 2/2)) - 22/2$
:= $3/3 + ((3 \times 3 + 3) \times ((3^{3+3} - 33) + 3))$
:= $4 + ((4 \times ((4^4 \times (4 + 4) + 44) + 4)) + 4/4)$
:= $(5/5 + 5)^5 + ((5^5 - (55 + 5))/5)$
:= $6/6 + (((6 + 6) \times 666) + 6 \times 66)$
:= $7 + (77/7 \times (777 - (7/7 + 7 + 7)))$
:= $8 \times 8 + (888/8 \times (88/8 + 8 \times 8))$
:= $(9 \times (999 - 9)) - (((9 + 9)/9)^9 + 9)$
- 8390 := $(1 + 1) \times (111 + (((1 + 1)^{1+11}) - (1 + 11)))$
:= $2 + ((2^{22/2+2}) + ((2^{2+2} - 2)^2))$
:= $(3 - 3/3) \times ((3/3 + 3)^{3+3} + 3 \times 33)$
:= $4 + (((4 + 4)/4 - 4^4) \times (44/4 - 44)) + 4$
:= $(5/5 + 5)^5 + ((5^5 - 55)/5)$
:= $6 + (((6 + 6)/6)^6 \times (66 - 6/6 + 66))$
:= $77/7 + ((7 + 7 + 7) \times 7 \times (7 \times 7 + 7) + 7)$
:= $8 + (((8 + 8)/8) + 8 \times 8) \times (8 \times (8 + 8) - 8/8)$
:= $(9/9 + 9) \times ((9 \times 9 \times 9 + (99/9)) + 99)$
- 8391 := $((1 + 1) \times (111 + (((1 + 1)^{1+11}) - 11))) - 1$
:= $(2^{22/2+2}) + (((22 - 2)^2 - 2)/2)$
:= $((3 + 3)^3 \times (33 + 3 + 3)) - 33$
:= $4 + (((4 \times (4 + 4) \times (4^4 + 4)) + ((4^4 - 4)/4)) + 4)$
:= $5^5/5 + ((5/5 + 5)^5 - (5 + 5))$
:= $6 + ((66 - 6/6) \times (((666/6 + 6) + 6) + 6))$
:= $(77 \times (77/7 + 7 \times (7 + 7))) - (7 + 7)/7$
:= $8 + (88 \times (88 + 8) - (8/8 + 8 \times 8))$
:= $((9/9 + 9) \times (999/9 + 9 \times 9 \times 9)) - 9$
- 8392 := $(1 + 1) \times (111 + (((1 + 1)^{1+11}) - 11))$
:= $222 + ((2^{22/2+2}) - 22)$
:= $3/3 + (((3 + 3)^3 \times (33 + 3 + 3)) - 33)$
:= $4 + ((4 \times ((4^4 \times (4 + 4) + 44) + 4)) + 4)$
:= $(5^5 + 5)/5 + ((5/5 + 5)^5 - (5 + 5))$
:= $6 + (((6 + 6) \times 666) - ((6 + 6)/6) + 6 \times 66)$
:= $(77 \times (77/7 + 7 \times (7 + 7))) - 7/7$
:= $8 + (88 \times (88 + 8) - 8 \times 8)$
:= $9 + (((9 + 9)/9) + 9 \times 9) \times ((9 + 9)/9 + 99)$
- 8393 := $1 + ((1 + 1) \times (111 + (((1 + 1)^{1+11}) - 11)))$
:= $(2^{22/2+2}) + (((22 - 2)^2 + 2)/2)$
:= $33/3 \times ((3^{3+3} + 3/3) + 33)$
:= $44/4 \times (4 \times 4^4 - ((4/4 + 4^4) + 4))$
:= $(5/5 + 5)^5 + ((5^5 + 5 + 5)/5 - (5 + 5))$
:= $6 + (((6 + 6) \times 666) - 6/6) + 6 \times 66$
:= $77 \times (77/7 + 7 \times (7 + 7))$
:= $8 + ((88 \times (88 + 8) - 8 \times 8) + 8/8)$
:= $9 + (((9 \times 9 \times 9 \times 9 + 9)/(9 + 9)) + 9 \times 9 \times 99)$
- 8394 := $(1 + 1) \times (1 + (111 + (((1 + 1)^{1+11}) - 11)))$
:= $2 + (((2^{22/2+2}) - 22) + 222)$
:= $3 + (((3 + 3)^3 \times (33 + 3 + 3)) - 33)$
:= $44 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) - (4 + 4)/4)$
:= $(5/5 + 5) \times (5 \times (5 \times 55 + 5) - 5/5)$
:= $6 + (((6 + 6) \times 666) + 6 \times 66)$
:= $7/7 + (77 \times (77/7 + 7 \times (7 + 7)))$
:= $8 + ((88 \times (88 + 8) - 8 \times 8) + ((8 + 8)/8))$
:= $(9 \times (9 \times (99 + 9) - (9 + 9 + 9))) - 999/9$
- 8395 := $1 + ((1 + 1) \times (1 + (111 + (((1 + 1)^{1+11}) - 11))))$
:= $2 + (((22 - 2)^2 + 2)/2) + (2^{22/2+2})$
:= $((3 + 3)^3 + 3)/3 \times (((333 + 3)/3) + 3)$
:= $44 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) - 4/4)$
:= $((5 + 5 + 5) \times (555 + 5)) - 5$
:= $6 + (((6 + 6) \times 666) + 6 \times 66) + 6/6$
:= $(7 + 7)/7 + (77 \times (77/7 + 7 \times (7 + 7)))$
:= $88/8 + (88 \times (88 + 8) - 8 \times 8)$
:= $((9/9 - 9) + 9 \times 9) \times (((99 - ((9 + 9)/9)) + 9) + 9)$
- 8396 := $(1 + 1) \times (1 + (1 + (111 + (((1 + 1)^{1+11}) - 11))))$
:= $(2 \times (2 \times (2222 - 2))) - 22^2$
:= $3 + (33/3 \times ((3^{3+3} + 3/3) + 33))$
:= $44 + ((4 + 4) \times (4 \times (4^4 + 4) + 4))$
:= $5^5/5 + ((5/5 + 5)^5 - 5)$
:= $6 + (((6 + 6)/6)^6 \times (66 - 6/6 + 66)) + 6$
:= $7 + ((77/7 \times (777 - (7/7 + 7 + 7))) + 7)$
:= $((88 + 8)/8) + (88 \times (88 + 8) - 8 \times 8)$
:= $9 \times 9 + (99 \times (((9 + 9 + 9)/9) + 9 \times 9)) - 9/9$
- 8397 := $(1 + 1 + 1) \times (((1 + 111) \times (1 + ((1 + 1) \times (1 + 11)))) - 1)$
:= $((22 - 2)^2 \times (22 - 2/2)) - 2/2 - 2$
:= $3 \times ((33 \times (3 \times 3^3 + 3)) + 3^3)$
:= $44 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) + 4/4)$
:= $(5^5 + 5)/5 + ((5/5 + 5)^5 - 5)$
:= $(6 + 6) \times (666 + 6) + 666 \times 6/(6 + 6)$
:= $(77/7 \times ((777 - (7 + 7)) + 7/7)) - 7$
:= $88 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) - (88/8))$
:= $9 \times 9 + (99 \times (((9 + 9 + 9)/9) + 9 \times 9))$

$$\begin{aligned}
\blacktriangleright 8398 &:= ((1+1) \times 111 - 1) \times (1 + (111/(1+1+1))) \\
&:= ((22-2)^2 \times (22-2/2)) - 2 \\
&:= (3/3 + 33) \times (((3^{3+3} + 3)/3) + 3) \\
&:= ((44/4 + 4) + 4) \times (444 - (4+4)/4) \\
&:= (5/5 + 5)^5 + ((5^5 + 5 + 5)/5 - 5) \\
&:= ((6+6)/6 + 6 \times 6) \times ((6 \times 6 \times 6 - 6/6) + 6) \\
&:= 7 + ((77 \times (77/7 + 7 \times (7+7))) - ((7+7)/7)) \\
&:= 8 + (((8+8)/8) + 8 \times 8) \times (8 \times (8+8) - 8/8) + 8) \\
&:= (9 \times (999 - 9)) - ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8399 &:= ((11 + (11 - 1)) \times ((1 + 1) \times (11 - 1))^{1+1}) - 1 \\
&:= ((22 - 2)^2 \times (22 - 2/2)) - 2/2 \\
&:= (3/3 + 33 + 3) \times ((3 + 3)^3 + 33/3) \\
&:= (((4 + 4) + 4) \times (444 + 4^4)) - 4/4 \\
&:= (5/5 + 5)^5 + (5^5 - 5 - 5)/5 \\
&:= (6 \times 6 + 6/6) \times (6 \times 6 \times 6 + 66/6) \\
&:= 7 + ((77 \times (77/7 + 7 \times (7+7))) - 7/7) \\
&:= 8 + ((88 \times (88 + 8) - (8/8 + 8 \times 8)) + 8) \\
&:= 9/9 + ((9 \times (999 - 9)) - ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8400 &:= (11 + (11 - 1)) \times ((1 + 1) \times (11 - 1))^{1+1} \\
&:= (22 - 2)^2 \times (22 - 2/2) \\
&:= (3^3 + 3/3) \times (3 \times 3 \times 33 + 3) \\
&:= ((4 + 4) + 4) \times (444 + 4^4) \\
&:= (5 + 5 + 5) \times (555 + 5) \\
&:= 6 + (((6+6) \times 666) + 6 \times 66) + 6) \\
&:= 7 + (77 \times (77/7 + 7 \times (7+7))) \\
&:= 8 + ((88 \times (88 + 8) - 8 \times 8) + 8) \\
&:= (9/9 + 9) \times (999/9 + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8401 &:= 1 + ((11 + (11 - 1)) \times ((1 + 1) \times (11 - 1))^{1+1}) \\
&:= 2/2 + ((22 - 2)^2 \times (22 - 2/2)) \\
&:= 3 + ((3/3 + 33) \times (((3^{3+3} + 3)/3) + 3)) \\
&:= 4/4 + (((4 + 4) + 4) \times (444 + 4^4)) \\
&:= 5^5/5 + (5/5 + 5)^5 \\
&:= (6^{6-6/6}) + ((6 - 6/6)^{6-(6+6)/6}) \\
&:= 7 + ((77 \times (77/7 + 7 \times (7+7))) + 7/7) \\
&:= 8 + (((88 \times (88 + 8) - 8 \times 8) + 8/8) + 8) \\
&:= 9999/9 + 9 \times 9 \times (9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8402 &:= ((1 + 1) \times (111 + ((1 + 1)^{1+11}))) - 1 - 11 \\
&:= 2 + ((22 - 2)^2 \times (22 - 2/2)) \\
&:= 3 + ((3/3 + 33 + 3) \times ((3 + 3)^3 + 33/3)) \\
&:= (4 + 4)/4 + (((4 + 4) + 4) \times (444 + 4^4)) \\
&:= (5^5 + 5)/5 + (5/5 + 5)^5 \\
&:= 6 \times 6 \times 6 + (((6 + 6)/6)^{6/6+6+6}) - 6) \\
&:= 77 + (777/7 \times (77 - (7 + 7)/7)) \\
&:= 8 + (((88 \times (88 + 8) - 8 \times 8) + ((8 + 8)/8)) + 8) \\
&:= 9 \times 9 \times (9 \times 9 + 9) + (9999 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8403 &:= ((1 + 1) \times (111 + ((1 + 1)^{1+11}))) - 11 \\
&:= 2 + (((22 - 2)^2 \times (22 - 2/2)) + 2/2) \\
&:= 3 + ((3^3 + 3/3) \times (3 \times 3 \times 33 + 3)) \\
&:= (4 \times 44 \times (44 + 4)) - (44 + 4/4) \\
&:= (5/5 + 5)^5 + (5^5 + 5 + 5)/5 \\
&:= ((66/6) \times (((6 \times 6/(6 + 6))^6) + 6 \times 6)) - 6 - 6 \\
&:= ((7 + 7 + 7)/7)^7 + ((7/7 + 7) \times 777) \\
&:= 8 + ((88 \times (88 + 8) - 8 \times 8) + (88/8)) \\
&:= 9 \times 9 \times (9 \times 9 + 9) + (((9999 + 9) + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8404 &:= 1 + (((1 + 1) \times (111 + ((1 + 1)^{1+11}))) - 11) \\
&:= 22 \times ((2^{2+2} \times (22 + 2)) - 2) \\
&:= 33/3 \times (((3^{3+3} - 3/3) + 33) + 3) \\
&:= 44 \times (4^4 - (4^4 + 4)/4) \\
&:= (5 - 5/5) \times (5^5 - (5 - 5/5)^5) \\
&:= 6 + (((6 + 6)/6 + 6 \times 6) \times ((6 \times 6 \times 6 - 6/6) + 6)) \\
&:= 77/7 \times ((777 - (7 + 7)) + 7/7) \\
&:= 8888 - 88 \times 88/(8 + 8) \\
&:= (9 \times 9 - 9) \times (99 + 9 + 9) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8405 &:= ((1 + 1) \times (1 + (111 + ((1 + 1)^{1+11})))) - 11 \\
&:= 22^2 + ((2 \times 2 \times 22 + 2/2)^2) \\
&:= ((3 \times 3 + 3) \times 3^{3+3}) - ((3/3 + 3 + 3)^3) \\
&:= 4/4 + (44 \times (4^4 - (4^4 + 4)/4)) \\
&:= 5 + ((5 + 5 + 5) \times (555 + 5)) \\
&:= 6 + ((6 \times 6 + 6/6) \times (6 \times 6 \times 6 + 66/6)) \\
&:= (7 \times 7 - (7/7 + 7)) \times (((7 + 7)/7)^7 + 77) \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) - (88/8)) + 88) \\
&:= (9 \times 9 - 9) \times (99 + 9 + 9) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8406 &:= (1 + 1) \times (111 + ((1 + 1) \times ((1 + 1)^{11} - (1 + 1)))) \\
&:= 2 + (22 \times ((2^{2+2} \times (22 + 2)) - 2)) \\
&:= 3 + (((33 \times (3 \times 3^3 + 3)) + 3^3) + 3) \\
&:= (4 + 4)/4 + (44 \times (4^4 - (4^4 + 4)/4)) \\
&:= 5 + ((5/5 + 5)^5 + 5^5/5) \\
&:= 666 + (6 \times (6 \times 6 \times 6 - 6)) \\
&:= 77 + (((7 + 7) \times (7 \times (77 + 7) + 7)) - 7/7) \\
&:= 88 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) - ((8 + 8)/8)) \\
&:= (9 \times 9 - 9) \times (99 + 9 + 9) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8407 &:= 1 + ((1 + 1) \times (111 + ((1 + 1) \times ((1 + 1)^{11} - (1 + 1)))) \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) + 22^2) \\
&:= 3 + (33/3 \times (((3^{3+3} - 3/3) + 33) + 3)) \\
&:= 4 + (4 \times 44 \times (44 + 4)) - (44 + 4/4) \\
&:= 5 + ((5^5 + 5)/5 + (5/5 + 5)^5) \\
&:= 6/6 + ((6 \times (6 \times 6 \times 6 - 6)) + 666) \\
&:= 77 + ((7 + 7) \times (7 \times (77 + 7) + 7)) \\
&:= 88 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) - 8/8) \\
&:= 9 + ((9 \times (999 - 9)) - ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8408 &:= (1 + 1) \times (111 + (((1 + 1)^{1+11}) - (1 + 1))) \\
&:= (2 \times ((2 \times 222) + 2)) - 22^2 \\
&:= (3 + 3)^3 + ((3 - 3/3)^{3 \times 3 + 3/3 + 3}) \\
&:= 4 + (44 \times (4^4 - (4^4 + 4)/4)) \\
&:= 5 + ((5^5 + 5 + 5)/5 + (5/5 + 5)^5) \\
&:= 6 \times 6 \times 6 + (((6 + 6)/6)^{6/6+6+6}) \\
&:= 7/7 + (((7 + 7) \times (7 \times (77 + 7) + 7)) + 77) \\
&:= 88 + ((8 + 8) \times (8 \times 8 \times 8 + 8)) \\
&:= (9 - 9/9) \times ((9 \times (99 + 9 + 9)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8409 &:= ((1 + 1) \times (111 + ((1 + 1) \times ((1 + 1)^{11} - 1)))) - 1 \\
&:= 2 + (((2 \times 2 \times 22 + 2/2)^2) + 22^2) + 2) \\
&:= 3^3 + (33 \times ((3^{3+3} + 33)/3)) \\
&:= 4 + ((44 \times (4^4 - (4^4 + 4)/4)) + 4/4) \\
&:= 5 + ((5 - 5/5) \times (5^5 - (5 - 5/5)^5)) \\
&:= ((66/6) \times (((6 \times 6/(6 + 6))^6) + 6 \times 6)) - 6 \\
&:= 7 \times 7 + ((7/7 - 77) \times ((7 - 777)/7)) \\
&:= 8/8 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) + 88) \\
&:= 9 + ((9/9 + 9) \times (999/9 + 9 \times 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8410 &:= (1 + 1) \times (111 + ((1 + 1) \times ((1 + 1)^{11} - 1))) \\
&:= 222 + (2 \times (2^{2 \times (2+2+2)} - 2)) \\
&:= ((3 + 3)^3 \times (33 + 3 + 3)) - (33/3 + 3) \\
&:= ((4 + 4)/4 \times (444/4 + (4 + 4)^4)) - 4 \\
&:= 5 + (((5 + 5 + 5) \times (555 + 5)) + 5) \\
&:= (((6 + 6)/6)^6 - 6) \times ((6 + 6) \times (6 + 6) + 6/6) \\
&:= ((77 - 7)/7) \times (((77 \times 77 + 7)/7) - 7) \\
&:= 88 + (((8 + 8) \times (8 \times 8 \times 8 + 8)) + ((8 + 8)/8)) \\
&:= 9 + (9999/9 + 9 \times 9 \times (9 \times 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8411 &:= ((1 + 1) \times (111 + (((1 + 1)^{1+11}) - 1))) - 1 \\
&:= 222 + ((2^{22/2+2}) - (2/2 + 2)) \\
&:= ((3 \times 3 + 3/3) + 3) \times (3 \times (3 + 3)^3 - 3/3) \\
&:= ((4^4 - 4/4) \times (4 \times (4 + 4) + 4/4)) - 4 \\
&:= 5 + (((5/5 + 5)^5 + 5^5/5) + 5) \\
&:= (6/6 + 6 + 6) \times ((6 \times 6 \times (6 + 6 + 6)) - 6/6) \\
&:= 7 + (77/7 \times ((777 - (7 + 7)) + 7/7)) \\
&:= 88 \times (88 + 8) - 888/(8 + 8 + 8) \\
&:= ((99 + 9 + 9)/9) \times (9 \times (9 \times 9 - 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8412 &:= (1 + 1) \times (111 + (((1 + 1)^{1+11}) - 1)) \\
&:= 222 + ((2^{22/2+2}) - 2) \\
&:= (33 \times ((3 \times (3 \times 3^3 + 3)) + 3)) - 3 \\
&:= 44 + (4 \times (4^4 \times (4 + 4) + 44)) \\
&:= (5/5 + 5)^5 + ((55 + 5^5)/5) \\
&:= (6 + 6) \times ((666 - 6/6) + 6 \times 6) \\
&:= (77 + 7)/7 \times ((777 - 77) + 7/7) \\
&:= 8 + (8888 - 88 \times 88/(8 + 8)) \\
&:= (9 \times 9 - 9) \times (99 + 9 + 9) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8413 &:= ((1+1) \times (111 + ((1+1)^{1+11}))) - 1 \\
&:= 222 + ((2^{22/2+2}) - 2/2) \\
&:= (3+3)^3 \times (33+3+3) - 33/3 \\
&:= 44 + ((4 \times (4^4 \times (4+4) + 44)) + 4/4) \\
&:= (5/5+5)^5 + ((55+5^5+5)/5) \\
&:= (6+6) \times (666+6 \times 6) - 66/6 \\
&:= 7777 + ((7 \times (77+7+7)) - 7/7) \\
&:= 88 + (888/8 \times (88/8+8 \times 8)) \\
&:= (9 \times 9 - 9) \times (99+9+9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8414 &:= (1+1) \times (111 + ((1+1)^{1+11})) \\
&:= 222 + (2^{22/2+2}) \\
&:= (33 \times ((3 \times (3 \times 3^3 + 3)) + 3)) - 3/3 \\
&:= (4+4)/4 \times (444/4 + (4+4)^4) \\
&:= 5 + (((5-5/5) \times (5^5 - (5-5/5)^5)) + 5) \\
&:= 6 + (((6+6)/6)^{6/6+6+6}) + 6 \times 6 \times 6 \\
&:= 7777 + (7 \times (77+7+7)) \\
&:= ((8+8)/8) \times (888/8 + 8 \times 8 \times 8) \\
&:= (9 \times 9 - 9) \times (99+9+9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8415 &:= 1 + ((1+1) \times (111 + ((1+1)^{1+11}))) \\
&:= 2/2 + ((2^{22/2+2}) + 222) \\
&:= 33 \times ((3 \times (3 \times 3^3 + 3)) + 3) \\
&:= (4^4 - 4/4) \times (4 \times (4+4) + 4/4) \\
&:= (5+5+5) \times ((555+5/5) + 5) \\
&:= 66/6 \times (((6 \times 6/(6+6))^6) + 6 \times 6) \\
&:= 77/7 \times (777 - (77+7)/7) \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 + 8)) - 8/8) + 88 \\
&:= (9 \times 9 - 9) \times (99+9+9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8416 &:= (1+1) \times (1 + (111 + ((1+1)^{1+11}))) \\
&:= 2 + ((2^{22/2+2}) + 222) \\
&:= 3/3 + (33 \times ((3 \times (3 \times 3^3 + 3)) + 3)) \\
&:= 4 \times (44 \times (44+4) - (4+4)) \\
&:= 5 + (((5/5+5)^5 + 5^5/5) + 5) \\
&:= 66 \times 66 + (((6+6)/6)^{6+6}) - 6 \times 6 \\
&:= 7 + (((7/7-77) \times ((7-777)/7)) + 7 \times 7) \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 + 8)) + 88) \\
&:= 9/9 + ((9 \times 9 - 9) \times (99+9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8417 &:= 1 + ((1+1) \times (1 + (111 + ((1+1)^{1+11})))) \\
&:= 2 + (((2^{22/2+2}) + 222) + 2/2) \\
&:= 3 + ((33 \times ((3 \times (3 \times 3^3 + 3)) + 3)) - 3/3) \\
&:= 4/4 + (((4+4) \times (4 \times 4^4 - 4)) + 4^4) \\
&:= 5 + (((55+5^5)/5) + (5/5+5)^5) \\
&:= (6+6) \times (666+6 \times 6) - 6/6 - 6 \\
&:= ((7+7) \times ((7 \times (77+7) + 7) + 7)) - 77/7 \\
&:= 8 + (((8+8) \times (8 \times 8 \times 8 + 8)) + 88) + 8/8 \\
&:= (9+9)/9 + ((9 \times 9 - 9) \times (99+9+9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8418 &:= (1+1) \times (1 + (1 + (111 + ((1+1)^{1+11})))) \\
&:= 2 + (((2^{22/2+2}) + 222) + 2) \\
&:= 3 + (33 \times ((3 \times (3 \times 3^3 + 3)) + 3)) \\
&:= 4 + ((4+4)/4 \times (444/4 + (4+4)^4)) \\
&:= 5 + (((55+5^5+5)/5) + (5/5+5)^5) \\
&:= (6+6) \times (666+6 \times 6) - 6 \\
&:= (77 - (7/7+7)) \times (777+77)/7 \\
&:= 88 \times (88+8) - ((88+88)/8+8) \\
&:= 9 + (((9/9+9) \times (999/9+9 \times 9 \times 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8419 &:= 1 + ((1+1) \times (1 + (1 + (111 + ((1+1)^{1+11})))) \\
&:= ((2 \times (2 \times 22 + 2))^2) - (2 \times 22 + 2/2) \\
&:= 3 + ((33 \times ((3 \times (3 \times 3^3 + 3)) + 3)) + 3/3) \\
&:= 4 + ((4^4 - 4/4) \times (4 \times (4+4) + 4/4)) \\
&:= ((5-5/5) \times ((5^5 - (5-5/5)^5) + 5)) - 5 \\
&:= 6/6 + ((6+6) \times (666+6 \times 6) - 6) \\
&:= 77 \times 777/7 - ((7+7)/7)^7 \\
&:= 88 + (((8+8) \times (8 \times 8 \times 8 + 8)) + (88/8)) \\
&:= 9 \times 9 \times 99 + ((99/9+9)^{9+9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8420 &:= (1+1) \times (1 + (1 + (1 + (111 + ((1+1)^{1+11})))) \\
&:= 2 \times ((2 \times (2 \times 22 + 2))^2) - 222 \\
&:= ((3+3)^3 \times (33+3+3)) - (3/3+3) \\
&:= 4 + (((4+4) \times (4 \times 4^4 - 4)) + 4^4) \\
&:= 5 + ((5+5+5) \times ((555+5/5) + 5)) \\
&:= (6+6)/6 + ((6+6) \times (666+6 \times 6) - 6) \\
&:= 777 + (((7+7) \times (7 \times 77 + 7)) - 7/7) \\
&:= 88 \times (88+8) + ((8-8 \times 8)/(8+8)/8) \\
&:= 9 + (((99+9+9)/9) \times (9 \times (9 \times 9 - 9) - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8421 &:= (11 + (11 - 1)) \times (1 + ((1+1) \times (11 - 1))^{1+1}) \\
&:= (22 - 2/2) \times ((22 - 2)^2 + 2/2) \\
&:= ((3+3)^3 \times (33+3+3)) - 3 \\
&:= (4 \times (44 \times (44+4) - 4)) - 44/4 \\
&:= 5 \times 5 + (((5/5+5)^5 - 5) + 5^5/5) \\
&:= 6 + ((66/6) \times (((6 \times 6/(6+6))^6) + 6 \times 6)) \\
&:= 777 + ((7+7) \times (7 \times 77 + 7)) \\
&:= 88 \times (88+8) - (88/8+8+8) \\
&:= (9 \times 9 - 9) \times (99+9+9) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8422 &:= (1+1) \times (111 + ((1+1) \times (1 + (1 + (1+1)^{11})))) \\
&:= 2 + (2 \times ((2 \times (2 \times 22 + 2))^2) - 22) \\
&:= 3/3 + (((3+3)^3 \times (33+3+3)) - 3) \\
&:= (4+4)/4 \times ((444/4 + (4+4)^4) + 4) \\
&:= 5 + (((55+5^5)/5) + (5/5+5)^5) + 5 \\
&:= (6+6) \times (666+6 \times 6) - (6+6)/6 \\
&:= ((77 - 7/7) \times 777/7) - (7+7) \\
&:= (8-88)/8 + (88 \times (88+8) - (8+8)) \\
&:= (9 \times 9 - 9) \times (99+9+9) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8423 &:= 11 + ((1+1) \times (111 + (((1+1)^{1+11}) - 1))) \\
&:= 2 + ((22 - 2/2) \times ((22 - 2)^2 + 2/2)) \\
&:= ((3+3)^3 \times (33+3+3)) - 3/3 \\
&:= 4 + (((4^4 - 4/4) \times (4 \times (4+4) + 4/4)) + 4) \\
&:= (5/5+5)^5 + (((55+55) + 5^5)/5) \\
&:= (6+6) \times (666+6 \times 6) - 6/6 \\
&:= 7/7 + (((77 - 7/7) \times 777/7) - (7+7)) \\
&:= 88 \times (88+8) - (8/8+8+8+8) \\
&:= (9 \times 9 - 9) \times (99+9+9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8424 &:= 11 + (((1+1) \times (111 + ((1+1)^{1+11}))) - 1) \\
&:= (22 + 2 + 2) \times ((2^{2+2} + 2)^2) \\
&:= (3+3)^3 \times (33+3+3) \\
&:= (4 \times (44 \times (44+4) - 4)) - 4 - 4 \\
&:= (5-5/5) \times ((5^5 - (5-5/5)^5) + 5) \\
&:= (6+6) \times (666+6 \times 6) \\
&:= (7-7/7) \times ((77/7+7) \times (7/7+77)) \\
&:= 88 \times (88+8) - 8 - 8 - 8 \\
&:= (9 \times 9 - 9) \times (99+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8425 &:= 11 + ((1+1) \times (111 + ((1+1)^{1+11}))) \\
&:= 2/2 + ((22 + 2 + 2) \times ((2^{2+2} + 2)^2)) \\
&:= 3/3 + ((3+3)^3 \times (33+3+3)) \\
&:= 4 + ((4 \times (44 \times (44+4) - 4)) - 44/4) \\
&:= 5 \times (((5/5+5) \times (5 \times 55 + 5)) + 5) \\
&:= 6/6 + (6+6) \times (666+6 \times 6) \\
&:= (77/7+7+7) \times ((7 \times 7 \times 7 - 7) + 7/7) \\
&:= 8/8 + (88 \times (88+8) - (8+8+8)) \\
&:= 9/9 + (9 \times 9 - 9) \times (99+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8426 &:= 1 + (11 + ((1+1) \times (111 + ((1+1)^{1+11})))) \\
&:= (22^{2/2+2}) - 2222 \\
&:= 3 + (((3+3)^3 \times (33+3+3)) - 3/3) \\
&:= 4^4 + ((4+4)/4 \times ((4+4)^4 - 44/4)) \\
&:= 5 \times 5 + ((5/5+5)^5 + 5^5/5) \\
&:= (6+6)/6 + (6+6) \times (666+6 \times 6) \\
&:= 77/7 \times (777 - (77/7)) \\
&:= 88/8 \times (8 \times (88+8) - ((8+8)/8)) \\
&:= (9+9)/9 + (9 \times 9 - 9) \times (99+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8427 &:= 11 + ((1+1) \times (1 + (111 + ((1+1)^{1+11})))) \\
&:= 2/2 + ((22^{2/2+2}) - 2222) \\
&:= 3 + ((3+3)^3 \times (33+3+3)) \\
&:= (4 \times (44 \times (44+4) - 4)) - 4/4 - 4 \\
&:= 5 \times 5 + ((5^5+5)/5 + (5/5+5)^5) \\
&:= 666/6 + (66 \times ((66-6) + 66)) \\
&:= ((7+7) \times ((7 \times (77+7) + 7) + 7)) - 7/7 \\
&:= 88 \times (88+8) + ((8-88)/8) \\
&:= ((9+9+9)/9) + (9 \times 9 - 9) \times (99+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8428 &:= 1 + (11 + ((1 + 1) \times (1 + (111 + ((1 + 1)^{1+11})))))) \\
&:= 2 + ((22^{2/2+2}) - 2222) \\
&:= 3 + (((3 + 3)^3 \times (33 + 3 + 3)) + 3/3) \\
&:= (4 \times (44 \times (44 + 4) - 4)) - 4 \\
&:= 5 \times 5 + ((5^5 + 5 + 5)/5 + (5/5 + 5)^5) \\
&:= 6 + ((6 + 6) \times (666 + 6 \times 6) - ((6 + 6)/6)) \\
&:= (7 + 7) \times ((7 \times (77 + 7) + 7) + 7) \\
&:= 88 \times (88 + 8) - ((88 + 8)/8 + 8) \\
&:= (99 - 9/9) \times (((9 \times 9 + 9)/(9 + 9)) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8429 &:= 11 + ((1 + 1) \times (1 + (1 + (111 + ((1 + 1)^{1+11})))))) \\
&:= 2 + (((22^{2/2+2}) - 2222) + 2/2) \\
&:= 3 + (((3 + 3)^3 \times (33 + 3 + 3)) - 3/3) + 3 \\
&:= 4/4 + ((4 \times (44 \times (44 + 4) - 4)) - 4) \\
&:= 5 + ((5 - 5/5) \times ((5^5 - (5 - 5/5)^5) + 5)) \\
&:= 6 + ((6 + 6) \times (666 + 6 \times 6) - 6/6) \\
&:= ((77 - 7/7) \times 777/7) - 7 \\
&:= 88 \times (88 + 8) - (88/8 + 8) \\
&:= ((9 \times 9 + 9)/(9 + 9)) + (9 \times 9 - 9) \times (99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8430 &:= (1 + 1) \times (11^{1+1} + ((1 + 1) \times ((1 + 1)^{11} - 1))) \\
&:= (2^{2+2} \times ((22 + 2/2)^2 - 2)) - 2 \\
&:= 3 + (((3 + 3)^3 \times (33 + 3 + 3)) + 3) \\
&:= (4 \times (44 \times (44 + 4) - 4)) - (4 + 4)/4 \\
&:= (5/5 + 5) \times (5 \times (5 \times 55 + 5) + 5) \\
&:= 6 + (6 + 6) \times (666 + 6 \times 6) \\
&:= 7/7 + (((77 - 7/7) \times 777/7) - 7) \\
&:= (8 - 88)/8 + (88 \times (88 + 8) - 8) \\
&:= 9 + ((9 \times 9 - 9) \times (99 + 9 + 9) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8431 &:= 1111 + (((11^{1+1+1+1}) - 1)/(1 + 1)) \\
&:= (2^{22/2+2}) + ((22^2 - 2)/2 - 2) \\
&:= 3 + (((3 + 3)^3 \times (33 + 3 + 3)) + 3/3) + 3 \\
&:= (4 \times (44 \times (44 + 4) - 4)) - 4/4 \\
&:= 5 + (((5/5 + 5)^5 + 5^5/5) + 5 \times 5) \\
&:= 6 + ((6 + 6) \times (666 + 6 \times 6) + 6/6) \\
&:= 7 + ((7 - 7/7) \times ((77/7 + 7) \times (7/7 + 77))) \\
&:= 88 \times (88 + 8) - (8/8 + 8 + 8) \\
&:= 9 + ((9 \times 9 - 9) \times (99 + 9 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8432 &:= (1 + 1) \times (11^{1+1} + (((1 + 1)^{1+11}) - 1)) \\
&:= 2^{2+2} \times ((22 + 2/2)^2 - 2) \\
&:= 3 \times 3 + (((3 + 3)^3 \times (33 + 3 + 3)) - 3/3) \\
&:= 4 \times (44 \times (44 + 4) - 4) \\
&:= 5 + (((5^5 + 5)/5 + (5/5 + 5)^5) + 5 \times 5) \\
&:= 6 + ((6 + 6) \times (666 + 6 \times 6) + ((6 + 6)/6)) \\
&:= (77/7 \times ((777 - 7) + 7/7)) - 7 \times 7 \\
&:= 88 \times (88 + 8) - 8 - 8 \\
&:= 9 + ((9 \times 9 - 9) \times (99 + 9 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8433 &:= (11 - 1 - 1) \times ((1 + 1)^{11} - 1111) \\
&:= (2^{22/2+2}) + (22^2 - 2)/2 \\
&:= 3 \times (((33 + 3) \times (3 \times 3^3 - 3)) + 3) \\
&:= 4/4 + (4 \times (44 \times (44 + 4) - 4)) \\
&:= 5^5/5 + ((5/5 + 5)^5 + ((5 + 5)/5)^5) \\
&:= 6 + ((66 \times ((66 - 6) + 66)) + 666/6) \\
&:= 7 + (77/7 \times (777 - (77/7))) \\
&:= 8/8 + (88 \times (88 + 8) - (8 + 8)) \\
&:= 9 + (9 \times 9 - 9) \times (99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8434 &:= (1 + 1) \times (11^{1+1} + ((1 + 1)^{1+11})) \\
&:= 22^2/2 + (2^{22/2+2}) \\
&:= 3 \times 3 + (((3 + 3)^3 \times (33 + 3 + 3)) + 3/3) \\
&:= (4 + 4)/4 + (4 \times (44 \times (44 + 4) - 4)) \\
&:= 5 + (((5 - 5/5) \times ((5^5 - (5 - 5/5)^5) + 5)) + 5) \\
&:= 666 + ((6^{6-6/6}) - ((6 + 6)/6 + 6)) \\
&:= 7 + (((7 + 7) \times ((7 \times (77 + 7) + 7) + 7)) - 7/7) \\
&:= (8 + 8)/8 + (88 \times (88 + 8) - (8 + 8)) \\
&:= 9 + ((9 \times 9 - 9) \times (99 + 9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8435 &:= 1 + ((1 + 1) \times (11^{1+1} + ((1 + 1)^{1+11}))) \\
&:= (2^{22/2+2}) + (22^2 + 2)/2 \\
&:= 33/3 + ((3 + 3)^3 \times (33 + 3 + 3)) \\
&:= 4 + ((4 \times (44 \times (44 + 4) - 4)) - 4/4) \\
&:= 5 + ((5/5 + 5) \times (5 \times (5 \times 55 + 5) + 5)) \\
&:= 666 + ((6^{6-6/6}) - (6/6 + 6)) \\
&:= 7 + ((7 + 7) \times ((7 \times (77 + 7) + 7) + 7)) \\
&:= 88 \times (88 + 8) - (88 + 8 + 8)/8 \\
&:= 99/9 + (9 \times 9 - 9) \times (99 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8436 &:= (1 + 1) \times (1 + (11^{1+1} + ((1 + 1)^{1+11}))) \\
&:= 222 \times ((2 + 2 + 2)^2 + 2) \\
&:= 3 + (((3 + 3)^3 \times (33 + 3 + 3)) + 3 \times 3) \\
&:= 4 + (4 \times (44 \times (44 + 4) - 4)) \\
&:= 555/5 + ((5 + 5 + 5) \times 555) \\
&:= 666 + ((6^{6-6/6}) - 6) \\
&:= (77 - 7/7) \times 777/7 \\
&:= ((88 + 8)/8) \times (8 \times 88 - 8/8) \\
&:= 9 \times 999 + ((9 - 9999)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8437 &:= 1 + ((1 + 1) \times (1 + (11^{1+1} + ((1 + 1)^{1+11})))) \\
&:= 2/2 + (222 \times ((2 + 2 + 2)^2 + 2)) \\
&:= 33/3 \times ((3^{3+3} + 33/3) + 3^3) \\
&:= (4 \times 44 \times (44 + 4)) - 44/4 \\
&:= 5 \times 5 + (((55 + 5^5)/5) + (5/5 + 5)^5) \\
&:= 6/6 + (((6^{6-6/6}) - 6) + 666) \\
&:= 7/7 + ((77 - 7/7) \times 777/7) \\
&:= 88 \times (88 + 8) - 88/8 \\
&:= ((99 + 9 + 9)/9) \times (9 \times (9 \times 9 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8438 &:= (1 + 1) \times (1 + (1 + (11^{1+1} + ((1 + 1)^{1+11})))) \\
&:= 2 + (222 \times ((2 + 2 + 2)^2 + 2)) \\
&:= 3 + (((3 + 3)^3 \times (33 + 3 + 3)) + 33/3) \\
&:= (4 - 44)/4 + (4 \times 44 \times (44 + 4)) \\
&:= 5 + (((5/5 + 5)^5 + ((5 + 5)/5)^5) + 5^5/5) \\
&:= 666 + (((6^{6-6/6}) - 6) + ((6 + 6)/6)) \\
&:= (7 + 7)/7 + ((77 - 7/7) \times 777/7) \\
&:= (8 - 88)/8 + 88 \times (88 + 8) \\
&:= (99999/9) - 99 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8439 &:= (((11 - 1) \times (1 + 1 + 11))^{1+1})/(1 + 1) - 11 \\
&:= 2 + ((222 \times ((2 + 2 + 2)^2 + 2)) + 2/2) \\
&:= (3 + 3)^3 + (3 \times ((33/3 + 3)^3 - 3)) \\
&:= (4 \times 44 \times (44 + 4)) - (4/4 + 4 + 4) \\
&:= (5 - (5 + 5)/5) \times (((5 - 5^5)/(5 + 5)) + 5^5) \\
&:= 666 + ((6^{6-6/6}) - (6 \times 6/(6 + 6))) \\
&:= 77/7 + ((7 + 7) \times ((7 \times (77 + 7) + 7) + 7)) \\
&:= 88 \times (88 + 8) - (8/8 + 8) \\
&:= (99 - ((9 + 9)/9)) \times (99 - (99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8440 &:= 1 + (((11 - 1) \times (1 + 1 + 11))^{1+1})/(1 + 1) - 11 \\
&:= (2 - 22) \times (22 - 2 \times 222) \\
&:= 3 + (33/3 \times ((3^{3+3} + 33/3) + 3^3)) \\
&:= (4 \times 44 \times (44 + 4)) - 4 - 4 \\
&:= 5 \times ((5^5 + 5)/(5 + 5) + 5 \times 5 \times 55) \\
&:= 666 + (((6^{6-6/6}) - ((6 + 6)/6)) \\
&:= 7 + ((77/7 \times (777 - (77/7))) + 7) \\
&:= 88 \times (88 + 8) - 8 \\
&:= (9 - 9/9) \times ((9 \times (99 + 9 + 9)) + ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8441 &:= (1 + (11 + 11)) \times (1 + ((1 + 1 + 1) \times (1 + 11^{1+1}))) \\
&:= ((2 \times (2 \times 22 + 2))^2) - 22 - 2/2 \\
&:= ((3 \times 3 + 33) \times (33 \times (3 + 3) + 3)) - 3/3 \\
&:= 4 + ((4 \times 44 \times (44 + 4)) - 44/4) \\
&:= 5 + ((55 \times ((55 + 5)/5)) + (5/5 + 5)^5) \\
&:= 666 + (((6^{6-6/6}) - 6/6) \\
&:= (((7 + 7)/7)^7 \times (77 - 77/7)) - 7 \\
&:= 8/8 + (88 \times (88 + 8) - 8) \\
&:= (((9 + 9)/9)^9) + (9 \times (9 \times 99 - 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8442 &:= (11 - 1 - 1) \times (1 + ((1 + 1)^{11} - 1111)) \\
&:= ((2 \times (2 \times 22 + 2))^2) - 22 \\
&:= (3 \times 3 + 33) \times (33 \times (3 + 3) + 3) \\
&:= (4 \times 44 \times (44 + 4)) - ((4 + 4)/4 + 4) \\
&:= 555 + (555/5 + (5/5 + 5)^5) \\
&:= 666 + (6^{6-6/6}) \\
&:= 7 \times (77 \times (7 + 7) + ((7 + 7)/7)^7) \\
&:= (8 + 8)/8 + (88 \times (88 + 8) - 8) \\
&:= 9 + ((9 \times 9 - 9) \times (99 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8443 &:= 1 + ((11 - 1 - 1) \times (1 + ((1 + 1)^{11} - 1111))) \\
&:= 2/2 + (((2 \times (2 \times 22 + 2))^2) - 22) \\
&:= 3/3 + ((3 \times 3 + 33) \times (33 \times (3 + 3) + 3)) \\
&:= (4 \times 44 \times (44 + 4)) - 4/4 - 4 \\
&:= (((5 + 5)/5)^5 \times (5 \times 55 - (55/5))) - 5 \\
&:= 6/6 + ((6^{6-6/6}) + 666) \\
&:= 7 + ((77 - 7/7) \times 777/7) \\
&:= 88/8 + (88 \times (88 + 8) - (8 + 8)) \\
&:= 9 + (((9 \times 9 - 9) \times (99 + 9 + 9) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8444 &:= (1 + 1) \times ((1 + 1) \times (((1 + 1) \times 1111) - 111)) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) - 22) \\
&:= (3/3 + 3) \times ((33 \times ((3/3 + 3)^3)) - 3/3) \\
&:= (4 \times 44 \times (44 + 4)) - 4 \\
&:= (5 - 5/5) \times (((5^5 - (5 - 5/5)^5) + 5) + 5) \\
&:= 666 + ((6^{6-6/6}) + ((6 + 6)/6)) \\
&:= 7 + (((77 - 7/7) \times 777/7) + 7/7) \\
&:= 88 \times (88 + 8) - 8 \times 8/(8 + 8) \\
&:= 9 + ((9 \times 9 - 9) \times (99 + 9 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8445 &:= 11 + ((1 + 1) \times (11^{1+1} + (1 + 1)^{1+11})) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) - 22) + 2/2) \\
&:= (33 \times ((3/3 + 3)^{3+3+3})) - 3 \\
&:= 4/4 + ((4 \times 44 \times (44 + 4)) - 4) \\
&:= ((55 + 5 + 5) \times (5 \times 5 \times 5 + 5)) - 5 \\
&:= 666 + ((6^{6-6/6}) + (6 \times 6/(6 + 6))) \\
&:= (77/7 \times (777 - (7/7 + 7))) - (7 + 7) \\
&:= 8 + (88 \times (88 + 8) - (88/8)) \\
&:= 9 \times 9 + ((9/9 + 9 \times 9) \times (999/9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8446 &:= ((1 + 111)^{1+1}) - (1 + (1 + ((1 + 1)^{1+11})) \\
&:= 2 \times (((2^{2+2+2} + 2/2)^2) - 2) \\
&:= 3/3 + ((33 \times ((3/3 + 3)^{3+3+3})) - 3) \\
&:= (4 \times 44 \times (44 + 4)) - (4 + 4)/4 \\
&:= 55 + (((5/5 + 5)^5 - (5 + 5)) + 5^5/5) \\
&:= 66 \times 66 + (((6 + 6)/6)^{6+6}) - 6) \\
&:= 7 + (((7 + 7) \times ((7 \times (77 + 7) + 7) + 7)) + (77/7)) \\
&:= 88 \times (88 + 8) - (8 + 8)/8 \\
&:= (9/9 + 9 \times 9) \times (((999 + 9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8447 &:= ((1 + 111)^{1+1}) - (1 + ((1 + 1)^{1+11})) \\
&:= (22 \times (2^{2+2} \times (22 + 2))) - 2/2 \\
&:= (33 \times ((3/3 + 3)^{3+3+3})) - 3/3 \\
&:= (4 \times 44 \times (44 + 4)) - 4/4 \\
&:= 5 + ((555/5 + (5/5 + 5)^5) + 555) \\
&:= 6 + (((6^{6-6/6}) - 6/6) + 666) \\
&:= 77/7 + ((77 - 7/7) \times 777/7) \\
&:= 88 \times (88 + 8) - 8/8 \\
&:= 9 \times 999 + ((9 - 99 \times 99)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8448 &:= ((1 + 111)^{1+1}) - ((1 + 1)^{1+11}) \\
&:= 22 \times (2^{2+2} \times (22 + 2)) \\
&:= 33 \times ((3/3 + 3)^{3+3+3}) \\
&:= 4 \times 44 \times (44 + 4) \\
&:= ((5 + 5)/5)^5 \times (5 \times 55 - (55/5)) \\
&:= 6 + ((6^{6-6/6}) + 666) \\
&:= ((7 + 7)/7)^7 \times (77 - 77/7) \\
&:= 88 \times (88 + 8) \\
&:= (99 - (99/9)) \times (99 - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8449 &:= 1 + (((1 + 111)^{1+1}) - ((1 + 1)^{1+11})) \\
&:= 2/2 + (22 \times (2^{2+2} \times (22 + 2))) \\
&:= 3/3 + (33 \times ((3/3 + 3)^{3+3+3})) \\
&:= 4/4 + (4 \times 44 \times (44 + 4)) \\
&:= ((55 + 5 + 5) \times (5 \times 5 \times 5 + 5)) - 5/5 \\
&:= 6 + (((6^{6-6/6}) + 666) + 6/6) \\
&:= 77 \times 777/7 - 7 \times (7 + 7) \\
&:= 8/8 + 88 \times (88 + 8) \\
&:= (((9 + 9)/9)^9) + (9 \times (9 \times 99 - 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8450 &:= (((11 - 1) \times (1 + 1 + 11))^{1+1})/(1 + 1) \\
&:= 2 \times ((2^{2+2+2} + 2/2)^2) \\
&:= 3 + ((33 \times ((3/3 + 3)^{3+3+3})) - 3/3) \\
&:= (4 + 4)/4 + (4 \times 44 \times (44 + 4)) \\
&:= (55 + 5 + 5) \times (5 \times 5 \times 5 + 5) \\
&:= ((6 + 6)/6) \times ((66 - 6/6)^{(6+6)/6}) \\
&:= 7 + (((77 - 7/7) \times 777/7) + 7) \\
&:= (8 + 8)/8 + 88 \times (88 + 8) \\
&:= (((9 + 9)/9)^9) + 9 \times (9 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8451 &:= 1 + (((11 - 1) \times (1 + 1 + 11))^{1+1})/(1 + 1) \\
&:= 2/2 + (2 \times ((2^{2+2+2} + 2/2)^2)) \\
&:= 3 + (33 \times ((3/3 + 3)^{3+3+3})) \\
&:= 4 + ((4 \times 44 \times (44 + 4)) - 4/4) \\
&:= 55 + (((5/5 + 5)^5 - 5) + 5^5/5) \\
&:= 66 \times 66 + (((6 + 6)/6)^{6+6}) - 6/6) \\
&:= 7 + (((77 - 7/7) \times 777/7) + 7/7) + 7) \\
&:= 88/8 + (88 \times (88 + 8) - 8) \\
&:= 999 + 9 \times (9 \times 9 \times 9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8452 &:= 1 + (1 + (((11 - 1) \times (1 + 1 + 11))^{1+1})/(1 + 1)) \\
&:= 2 + (2 \times ((2^{2+2+2} + 2/2)^2)) \\
&:= 3 + ((33 \times ((3/3 + 3)^{3+3+3})) + 3/3) \\
&:= 4 + (4 \times 44 \times (44 + 4)) \\
&:= 55 + (((5/5 + 5)^5 - 5) + (5^5 + 5)/5) \\
&:= 66 \times 66 + (((6 + 6)/6)^{6+6}) \\
&:= (77/7 \times (777 - (7/7 + 7))) - 7 \\
&:= 8 \times 8/(8 + 8) + 88 \times (88 + 8) \\
&:= 9/9 + (9 \times (9 \times 9 \times 9 + 99) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8453 &:= ((11 + (11 - 1 - 1)^{1+1})^{1+1}) - 11 \\
&:= ((2 \times (2 \times 22 + 2))^2) - 22/2 \\
&:= (33/3)^3 + ((33 \times (3 + 3)^3) - (3 + 3)) \\
&:= 4 + ((4 \times 44 \times (44 + 4)) + 4/4) \\
&:= 5 + (((5 + 5)/5)^5 \times (5 \times 55 - (55/5))) \\
&:= 666 + ((6^{6-6/6}) + (66/6)) \\
&:= (((77 - 7)/7) \times ((77 \times 77 - 7)/7)) - 7 \\
&:= 8 + ((88 \times (88 + 8) - (88/8)) + 8) \\
&:= (9 \times 9 - ((9 + 9)/9)) \times ((99 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8454 &:= 1 + (((11 + (11 - 1 - 1)^{1+1})^{1+1}) - 11) \\
&:= 2 \times (((2^{2+2+2} + 2/2)^2) + 2) \\
&:= 3 + ((33 \times ((3/3 + 3)^{3+3+3})) + 3) \\
&:= 4 + ((4 \times 44 \times (44 + 4)) + (4 + 4)/4) \\
&:= 5 + (((55 + 5 + 5) \times (5 \times 5 \times 5 + 5)) - 5/5) \\
&:= 6 + (((6^{6-6/6}) + 666) + 6) \\
&:= (7 - 7/7) \times (((77 \times ((7 + 7)/7)^7) + 7)/7) \\
&:= 8 + (88 \times (88 + 8) - ((8 + 8)/8)) \\
&:= 999/9 + 9 \times (999 - 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8455 &:= ((1 + 1) \times (((1 + 1)^{1+11}) + (11 \times (1 + 11)))) - 1 \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) - 22/2) \\
&:= ((3 \times 3^3 + 33/3)^{3-3/3}) - 3 \times 3 \\
&:= 4 + (((4 \times 44 \times (44 + 4)) - 4/4) + 4) \\
&:= 5 + ((55 + 5 + 5) \times (5 \times 5 \times 5 + 5)) \\
&:= 6 + (((6^{6-6/6}) + 666) + 6/6) + 6) \\
&:= 7 + (((7 + 7)/7)^7 \times (77 - 77/7)) \\
&:= 8 + (88 \times (88 + 8) - 8/8) \\
&:= (((99/9) + 9 \times 9)^{(9+9)/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8456 &:= (1 + 1) \times (((1 + 1)^{1+11}) + (11 \times (1 + 11))) \\
&:= 2 \times (2 \times ((2 \times 22 + 2)^2 - 2)) \\
&:= (33/3)^3 + ((33 \times (3 + 3)^3) - 3) \\
&:= 4 + ((4 \times 44 \times (44 + 4)) + 4) \\
&:= 55 + ((5/5 + 5)^5 + 5^5/5) \\
&:= 6 + (((6 + 6)/6) \times ((66 - 6/6)^{(6+6)/6})) \\
&:= 7777 + ((7 \times 7 \times (7 + 7)) - 7) \\
&:= 8 + 88 \times (88 + 8) \\
&:= 9/9 + (((99/9) + 9 \times 9)^{(9+9)/9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8457 &:= 1 + (1 + 1) \times (((1 + 1)^{1+11}) + (11 \times (1 + 11))) \\
&:= 2/2 + (2 \times (2 \times ((2 \times 22 + 2)^2 - 2))) \\
&:= 33 + ((3 + 3)^3 \times (33 + 3 + 3)) \\
&:= 4 + (((4 \times 44 \times (44 + 4)) + 4/4) + 4) \\
&:= 55 + ((5^5 + 5)/5 + (5/5 + 5)^5) \\
&:= 6 + (((6 + 6)/6)^{6+6}) - 6/6) + 66 \times 66) \\
&:= (((7/7 + 77 + 7) + 7)^{(7+7)/7}) - 7 \\
&:= 8 + (88 \times (88 + 8) + 8/8) \\
&:= (((9 + 9)/9) + 9 \times 9) \times (999/9 - 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8458 &:= (1+1) \times (1 + (((1+1)^{1+11}) + (11 \times (1+11)))) \\
&:= 2 + (2 \times (2 \times ((2 \times 22 + 2)^2 - 2))) \\
&:= 3/3 + (((3+3)^3 \times (33+3+3)) + 33) \\
&:= (44-4)/4 + (4 \times 44 \times (44+4)) \\
&:= 55 + ((5^5 + 5 + 5)/5 + (5/5 + 5)^5) \\
&:= 6 + (((6+6)/6)^{6+6}) + 66 \times 66 \\
&:= ((7+7)/7)^7 + ((7+7) \times (7 \times (77+7) + 7)) \\
&:= 8 + (88 \times (88+8) + ((8+8)/8)) \\
&:= 9 + ((9 \times (9 \times 99 - 9) - 9/9) + ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8459 &:= 11 + (((1+111)^{1+1}) - ((1+1)^{1+11})) \\
&:= ((2 \times (2 \times 22 + 2))^2) - 2/2 - 2 - 2 \\
&:= (33/3)^3 + (33 \times (3+3)^3) \\
&:= 44/4 + (4 \times 44 \times (44+4)) \\
&:= 55 + ((5-5/5) \times (5^5 - (5-5/5)^5)) \\
&:= ((6 \times 6 - 6) \times (6 \times 6 \times 6 + 66)) - 6/6 \\
&:= 77/7 \times (777 - (7/7 + 7)) \\
&:= 88/8 + 88 \times (88+8) \\
&:= 9 + (9 \times (9 \times 99 - 9) + ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8460 &:= (1+11) \times (1 + (11 \times ((1+1)^{(1+1) \times (1+1+1)}))) \\
&:= 2 \times ((2 \times (2 \times 22 + 2)^2) - 2) \\
&:= (3 \times 3 + 3) \times ((3^{3+3} - 3^3) + 3) \\
&:= (4 \times (44 \times (44+4) + 4)) - 4 \\
&:= 5 + (((55+5+5) \times (5 \times 5 \times 5 + 5)) + 5) \\
&:= (6 \times 6 - 6) \times (6 \times 6 \times 6 + 66) \\
&:= ((77-7)/7) \times ((77 \times 77 - 7)/7) \\
&:= ((88+8)/8) + 88 \times (88+8) \\
&:= 9999 - (9 \times (9 \times (9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8461 &:= 11 + (((11-1) \times (1+1+11))^{1+1}) / (1+1) \\
&:= ((2 \times (2 \times 22 + 2))^2) - 2/2 - 2 \\
&:= (33 - 33/3)^3 - 3 \times 3^{3+3} \\
&:= 4/4 + ((4 \times (44 \times (44+4) + 4)) - 4) \\
&:= 5 + (((5/5 + 5)^5 + 5^5/5) + 55) \\
&:= 6/6 + ((6 \times 6 - 6) \times (6 \times 6 \times 6 + 66)) \\
&:= 7777 + ((7 \times 7 \times (7+7)) - ((7+7)/7)) \\
&:= 88 \times (88+8) + (88+8+8)/8 \\
&:= 9 \times 999 - (((9+9)/9)^9 + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8462 &:= ((11 + (11 - 1 - 1)^{1+1})^{1+1}) - 1 - 1 \\
&:= ((2 \times (2 \times 22 + 2))^2) - 2 \\
&:= 3 + ((33 \times (3+3)^3) + (33/3)^3) \\
&:= (4 \times (44 \times (44+4) + 4)) - (4+4)/4 \\
&:= 5 + (((5^5 + 5)/5 + (5/5 + 5)^5) + 55) \\
&:= (6+6)/6 + ((6 \times 6 - 6) \times (6 \times 6 \times 6 + 66)) \\
&:= 7777 + ((7 \times 7 \times (7+7)) - 7/7) \\
&:= 8 + ((88 \times (88+8) - ((8+8)/8)) + 8) \\
&:= 9 + ((9 \times 9 - ((9+9)/9)) \times ((99 - 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8463 &:= ((11 + (11 - 1 - 1)^{1+1})^{1+1}) - 1 \\
&:= ((2 \times (2 \times 22 + 2))^2) - 2/2 \\
&:= (33 + 3 + 3) \times ((3+3)^3 + 3/3) \\
&:= (4 \times (44 \times (44+4) + 4)) - 4/4 \\
&:= (55 + 5 + 5)/5 \times ((5^5 + 5)/5 + 5 \times 5) \\
&:= (6 \times 6 \times 6 + 6/6) \times (((66 \times 6)/(6+6)) + 6) \\
&:= 7777 + (7 \times 7 \times (7+7)) \\
&:= 8 + ((88 \times (88+8) - 8/8) + 8) \\
&:= (((99/9) + 9 \times 9)^{(9+9)/9}) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8464 &:= (11 + (11 - 1 - 1)^{1+1})^{1+1} \\
&:= (2 \times (2 \times 22 + 2))^2 \\
&:= (3 \times 3^3 + 33/3)^{3-3/3} \\
&:= 4 \times (44 \times (44+4) + 4) \\
&:= (((5+5)/5)^5 + 55) + 5^{(5+5)/5} \\
&:= 6 + (((6+6)/6)^{6+6}) + 66 \times 66 + 6 \\
&:= ((7/7 + 77 + 7) + 7)^{(7+7)/7} \\
&:= 8 + (88 \times (88+8) + 8) \\
&:= ((99/9) + 9 \times 9)^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8465 &:= 1 + ((11 + (11 - 1 - 1)^{1+1})^{1+1}) \\
&:= 2/2 + ((2 \times (2 \times 22 + 2))^2) \\
&:= 3 + (((33 \times (3+3)^3) + (33/3)^3) + 3) \\
&:= 4/4 + (4 \times (44 \times (44+4) + 4)) \\
&:= (55 \times (5 \times (5 \times 5 + 5) + 5)) - 55 - 5 \\
&:= 6 + (((6 \times 6 - 6) \times (6 \times 6 \times 6 + 66)) - 6/6) \\
&:= 7/7 + (((7/7 + 77 + 7) + 7)^{(7+7)/7}) \\
&:= 8 + ((88 \times (88+8) + 8/8) + 8) \\
&:= 9/9 + (((99/9) + 9 \times 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8466 &:= 1 + (1 + ((11 + (11 - 1 - 1)^{1+1})^{1+1})) \\
&:= 2 + ((2 \times (2 \times 22 + 2))^2) \\
&:= (3/3 + 33) \times ((3+3)^3 + 33) \\
&:= (4+4)/4 + (4 \times (44 \times (44+4) + 4)) \\
&:= 5 + (((5/5 + 5)^5 + 5^5/5) + 55) + 5 \\
&:= 6 + ((6 \times 6 - 6) \times (6 \times 6 \times 6 + 66)) \\
&:= 7 + (77/7 \times (777 - (7/7 + 7))) \\
&:= 8 + ((88 \times (88+8) + ((8+8)/8)) + 8) \\
&:= (((9+9)/9) + 9 \times 9) \times (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8467 &:= 1 + (1 + (1 + ((11 + (11 - 1 - 1)^{1+1})^{1+1}))) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 2/2) \\
&:= 3 + ((3 \times 3^3 + 33/3)^{3-3/3}) \\
&:= 4 + ((4 \times (44 \times (44+4) + 4)) - 4/4) \\
&:= 55 + (((55 + 5^5)/5) + (5/5 + 5)^5) \\
&:= 6 + (((6 \times 6 - 6) \times (6 \times 6 \times 6 + 66)) + 6/6) \\
&:= 7 + (((77 - 7)/7) \times ((77 \times 77 - 7)/7)) \\
&:= 8 + (88 \times (88+8) + (88/8)) \\
&:= 9/9 + (((9+9)/9) + 9 \times 9) \times (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8468 &:= 1 + (1 + (1 + (1 + ((11 + (11 - 1 - 1)^{1+1})^{1+1})))) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 2) \\
&:= 3 \times 3 + ((33 \times (3+3)^3) + (33/3)^3) \\
&:= 4 + (4 \times (44 \times (44+4) + 4)) \\
&:= 5 + ((55 + 5 + 5)/5 \times ((5^5 + 5)/5 + 5 \times 5)) \\
&:= (66 + 6/6 + 6) \times (((666 - 6)/6) + 6) \\
&:= (77 \times (777 - 7)/7) - (7+7)/7 \\
&:= 8 + (88 \times (88+8) + ((88+8)/8)) \\
&:= 9 + ((9 \times (9 \times 99 - 9) + ((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8469 &:= (11 \times (11 \times ((11 - 1 - 1)^{1+1} - 11))) - 1 \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 2/2) + 2 \\
&:= 3 + ((3/3 + 33) \times ((3+3)^3 + 33)) \\
&:= 4 + ((4 \times (44 \times (44+4) + 4)) + 4/4) \\
&:= 5 + (((5+5)/5)^5 + 55) + 5^{(5+5)/5} \\
&:= (6^{6-6/6}) + (((6 \times 6)/(6+6))^6) - 6 \times 6 \\
&:= (77 \times (777 - 7)/7) - 7/7 \\
&:= 8 + (88 \times (88+8) + (88+8+8)/8) \\
&:= 9 + (9999 - (9 \times (9 \times (9+9) + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8470 &:= 11 \times (11 \times ((11 - 1 - 1)^{1+1} - 11)) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 2) + 2 \\
&:= (3/3 + 3)^{3+3} + ((3+3) \times 3^{3+3}) \\
&:= (444 - 4)/4 \times ((4 - 4/4)^4 - 4) \\
&:= 55 \times ((5 \times (5 \times 5 + 5) - 5/5) + 5) \\
&:= (66/6 + 66) \times ((666 - 6)/6) \\
&:= 77 \times (777 - 7)/7 \\
&:= 88/8 \times (8 \times (88+8) + ((8+8)/8)) \\
&:= 9 \times 999 - (((9+9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8471 &:= 1 + (11 \times (11 \times ((11 - 1 - 1)^{1+1} - 11))) \\
&:= (2 \times (2 \times ((2 \times 22 + 2)^2 + 2))) - 2/2 \\
&:= ((3+3) \times ((33/3)^3 + 3 \times 3^3)) - 3/3 \\
&:= 4 + (((4 \times (44 \times (44+4) + 4)) - 4/4) + 4) \\
&:= 5/5 + (55 \times ((5 \times (5 \times 5 + 5) - 5/5) + 5)) \\
&:= 66/6 + ((6 \times 6 - 6) \times (6 \times 6 \times 6 + 66)) \\
&:= 7/7 + (77 \times (777 - 7)/7) \\
&:= 8 + (((88 \times (88+8) - 8/8) + 8) + 8) \\
&:= 9/9 + (9 \times 999 - (((9+9)/9)^9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8472 &:= 1 + (1 + (11 \times (11 \times ((11 - 1 - 1)^{1+1} - 11)))) \\
&:= 2 \times (2 \times ((2 \times 22 + 2)^2 + 2)) \\
&:= (3+3) \times ((33/3)^3 + 3 \times 3^3) \\
&:= 4 + ((4 \times (44 \times (44+4) + 4)) + 4) \\
&:= (5+5)/5 \times (5555/5 + 5^5) \\
&:= 6 + (((6 \times 6 - 6) \times (6 \times 6 \times 6 + 66)) + 6) \\
&:= (7+7)/7 + (77 \times (777 - 7)/7) \\
&:= 8 + ((88 \times (88+8) + 8) + 8) \\
&:= 9 + (((99/9) + 9 \times 9)^{(9+9)/9}) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8473 &:= 11 + (((11 + (11 - 1 - 1)^{1+1})^{1+1}) - (1 + 1)) \\
&:= 2/2 + (2 \times (2 \times ((2 \times 22 + 2)^2 + 2))) \\
&:= 3 + ((3/3 + 3)^{3+3} + ((3 + 3) \times 3^{3+3})) \\
&:= 4 + (((4 \times (44 \times (44 + 4) + 4) + 4/4) + 4) \\
&:= ((5 + 5 + 5) \times (555 + 5 + 5)) - (5 + 5)/5 \\
&:= (6 \times 6 + 6/6) \times ((6 \times 6 \times 6 + 6/6 + 6) + 6) \\
&:= 7 + ((77/7 \times (777 - (7/7 + 7))) + 7) \\
&:= 8 + (((88 \times (88 + 8) + 8/8) + 8) + 8) \\
&:= 9 + (((99/9) + 9 \times 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8474 &:= 11 + (((11 + (11 - 1 - 1)^{1+1})^{1+1}) - 1) \\
&:= 2 + (2 \times (2 \times ((2 \times 22 + 2)^2 + 2))) \\
&:= ((3^{3+3} - 3)/3) + (3 \times (33/3 + 3)^3) \\
&:= 4 + (((44 - 4)/4 \times ((4 - 4/4)^4 - 4)) \\
&:= ((5 + 5 + 5) \times (555 + 5 + 5)) - 5/5 \\
&:= ((6 + 6)/6 + 6 \times 6) \times (6 \times 6 \times 6 + 6/6 + 6) \\
&:= (77/7 \times ((777 - 7) + 7/7)) - 7 \\
&:= 8 + (((88 \times (88 + 8) + ((8 + 8)/8) + 8) + 8) \\
&:= 9 + (((99/9) + 9 \times 9)^{(9+9)/9}) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8475 &:= 11 + ((11 + (11 - 1 - 1)^{1+1})^{1+1}) \\
&:= 22/2 + ((2 \times (2 \times 22 + 2))^2) \\
&:= 3 \times ((33/3 + 3)^3 + 3 \times 3^3) \\
&:= 44/4 + (4 \times (44 \times (44 + 4) + 4)) \\
&:= (5 + 5 + 5) \times (555 + 5 + 5) \\
&:= 6 + (((6 \times 6/(6 + 6))^6 - 6 \times 6) + (6^{6-6/6})) \\
&:= 7 + ((77 \times (777 - 7)/7) - ((7 + 7)/7)) \\
&:= 8 + ((88 \times (88 + 8) + (88/8) + 8) \\
&:= 9 + (((9 + 9)/9) + 9 \times 9) \times (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8476 &:= 1 + (11 + ((11 + (11 - 1 - 1)^{1+1})^{1+1})) \\
&:= 2 \times ((2 \times ((2 \times 22 + 2)^2 + 2)) + 2) \\
&:= 3/3 + (3 \times ((33/3 + 3)^3 + 3 \times 3^3)) \\
&:= ((44 - 4) \times (4^4 - 44)) - 4 \\
&:= 5/5 + ((5 + 5 + 5) \times (555 + 5 + 5)) \\
&:= 6 + ((66/6 + 66) \times ((666 - 6)/6)) \\
&:= 7 + ((77 \times (777 - 7)/7) - 7/7) \\
&:= 8 + ((88 \times (88 + 8) + ((88 + 8)/8) + 8) \\
&:= (99 + 9)/9 + (((99/9) + 9 \times 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8477 &:= (1 + ((1 + 1) \times (1 + 1 + 1))) \times (1 + (11 \times (111 - 1))) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 22/2) \\
&:= (3 \times (3 \times (((3 + 3)^3 - 3) + 3^{3+3}))) - 3/3 \\
&:= 4/4 + (((44 - 4) \times (4^4 - 44)) - 4) \\
&:= 5 + ((5 + 5)/5 \times (5555/5 + 5^5)) \\
&:= 6 \times 6 + (((6^{6-6/6}) - 6/6) + 666) \\
&:= 7 + (77 \times (777 - 7)/7) \\
&:= 8 + ((88 \times (88 + 8) + (88 + 8 + 8)/8) + 8) \\
&:= 9 \times 999 - (((9 + 9)/9)^9) + ((9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8478 &:= (1 + 1) \times ((1 + 11)^{1+1} + (((1 + 1)^{1+11}) - 1)) \\
&:= 2 + (2 \times ((2 \times ((2 \times 22 + 2)^2 + 2)) + 2)) \\
&:= 3 \times (3 \times (((3 + 3)^3 - 3) + 3^{3+3})) \\
&:= ((44 - 4) \times (4^4 - 44)) - (4 + 4)/4 \\
&:= (55 - 5/5) \times (((5 + 5)/5)^5 + 5 \times 5 \times 5) \\
&:= 6 \times 6 + (((6^{6-6/6}) + 666) \\
&:= 7 + ((77 \times (777 - 7)/7) + 7/7) \\
&:= 8 + (88 \times (88 + 8) + (88 + 88)/8) \\
&:= (9 \times (9 \times (99 + 9 + 9))) - 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8479 &:= ((1 + 1) \times ((1 + 11)^{1+1} + ((1 + 1)^{1+11}))) - 1 \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 22/2) + 2) \\
&:= (3^3 \times 333) - ((3 - 3/3)^{3 \times 3}) \\
&:= ((44 - 4) \times (4^4 - 44)) - 4/4 \\
&:= 5 + (((5 + 5 + 5) \times (555 + 5 + 5)) - 5/5) \\
&:= 6 \times 6 + (((6^{6-6/6}) + 666) + 6/6) \\
&:= 7 + ((77 \times (777 - 7)/7) + ((7 + 7)/7)) \\
&:= 8 + (((88 \times (88 + 8) - 8/8) + 8) + 8) + 8) \\
&:= 9 \times 999 - ((9 + 9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8480 &:= (1 + 1) \times ((1 + 11)^{1+1} + ((1 + 1)^{1+11})) \\
&:= 2 \times (2 \times ((2 \times 22 + 2)^2 + 2) + 2) \\
&:= (33 - 3/3) \times (((33 \times (3^3 - 3)) + 3)/3) \\
&:= (44 - 4) \times (4^4 - 44) \\
&:= 5 + ((5 + 5 + 5) \times (555 + 5 + 5)) \\
&:= (6^{6-6/6}) + ((66/6) \times ((6 + 6)/6)^6) \\
&:= ((77 - 7)/7) \times ((77 \times 77 + 7)/7) \\
&:= 8 + (((88 \times (88 + 8) + 8) + 8) + 8) \\
&:= 9/9 + (9 \times 999 - ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8481 &:= 1 + ((1 + 1) \times ((1 + 11)^{1+1} + ((1 + 1)^{1+11}))) \\
&:= 2/2 + (((2 \times (2 \times 22 + 2))^2) + 2^{2+2}) \\
&:= 33 \times (((3^{3+3} + 33)/3) + 3) \\
&:= 4/4 + ((44 - 4) \times (4^4 - 44)) \\
&:= 5 + (((5 + 5 + 5) \times (555 + 5 + 5)) + 5/5) \\
&:= 66/6 \times (((6 \times 6/(6 + 6))^6 + 6 \times 6) + 6) \\
&:= 77/7 \times ((777 - 7) + 7/7) \\
&:= 8 + (((88 \times (88 + 8) + 8/8) + 8) + 8) + 8) \\
&:= (9 + 9)/9 + (9 \times 999 - ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8482 &:= (1 + 1) \times (1 + ((1 + 11)^{1+1} + ((1 + 1)^{1+11}))) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 2^{2+2}) \\
&:= 3 + ((3^3 \times 333) - ((3 - 3/3)^{3 \times 3})) \\
&:= (4 + 4)/4 + ((44 - 4) \times (4^4 - 44)) \\
&:= (5 + 5)/5 \times ((5555/5 + 5^5) + 5) \\
&:= 6 + (((66/6 + 66) \times ((666 - 6)/6)) + 6) \\
&:= 7/7 + (77/7 \times ((777 - 7) + 7/7)) \\
&:= 8 + (((88 \times (88 + 8) + ((8 + 8)/8) + 8) + 8) + 8) \\
&:= 9 + (((99/9) + 9 \times 9)^{(9+9)/9}) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8483 &:= 1 + ((1 + 1) \times (1 + ((1 + 11)^{1+1} + ((1 + 1)^{1+11})))) \\
&:= 22 + (((2 \times (2 \times 22 + 2))^2) - (2/2 + 2)) \\
&:= 3 + ((33 - 3/3) \times (((33 \times (3^3 - 3)) + 3)/3)) \\
&:= 4 + (((44 - 4) \times (4^4 - 44)) - 4/4) \\
&:= 5 + ((55 - 5/5) \times (((5 + 5)/5)^5 + 5 \times 5 \times 5)) \\
&:= 6 + (((6^{6-6/6}) - 6/6) + 666) + 6 \times 6) \\
&:= 7 + (((77 \times (777 - 7)/7) - 7/7) + 7) \\
&:= 8 + (((88 \times (88 + 8) + (88/8)) + 8) + 8) \\
&:= ((9 - 9/9) + 9) \times ((9 \times 999 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8484 &:= (1 + 1) \times (1 + (1 + ((1 + 11)^{1+1} + ((1 + 1)^{1+11})))) \\
&:= 22 + (((2 \times (2 \times 22 + 2))^2) - 2) \\
&:= 3 + (33 \times (((3^{3+3} + 33)/3) + 3)) \\
&:= 4 + ((44 - 4) \times (4^4 - 44)) \\
&:= ((5 - 5/5 + 5) + 5) \times ((55 \times 55 + 5)/5) \\
&:= 6 + (((6^{6-6/6}) + 666) + 6 \times 6) \\
&:= 7 + ((77 \times (777 - 7)/7) + 7) \\
&:= ((88 + 8)/8) \times ((8 \times 88 - 8) + (88/8)) \\
&:= ((9 + 9)/9 + 99) \times (((9 + 9 + 9)/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8485 &:= 1 + ((1 + 1) \times (1 + (1 + ((1 + 11)^{1+1} + ((1 + 1)^{1+11})))) \\
&:= 22 + (((2 \times (2 \times 22 + 2))^2) - 2/2) \\
&:= 3 + (((3^3 \times 333) - ((3 - 3/3)^{3 \times 3})) + 3) \\
&:= 4 + (((44 - 4) \times (4^4 - 44)) + 4/4) \\
&:= 5 + (((5 + 5 + 5) \times (555 + 5 + 5)) + 5) \\
&:= 6 \times 666 + ((66 + 6/6)^{(6+6)/6}) \\
&:= 7 \times 7 + ((77 - 7/7) \times 777/7) \\
&:= 88 \times (88 + 8) + 888/(8 + 8 + 8) \\
&:= ((9 + 9) \times ((9 + 9)/9)^9) - (9 \times 9 \times 9 + ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8486 &:= 11 + (11 + ((11 + (11 - 1 - 1)^{1+1})^{1+1})) \\
&:= 22 + ((2 \times (2 \times 22 + 2))^2) \\
&:= 3^3 + ((33 \times (3 + 3)^3) + (33/3)^3) \\
&:= 4 + (((44 - 4) \times (4^4 - 44)) + (4 + 4)/4) \\
&:= 55/5 + ((5 + 5 + 5) \times (555 + 5 + 5)) \\
&:= 6 + (((66/6) \times ((6 + 6)/6)^6) + (6^{6-6/6})) \\
&:= 7 \times (7 \times 7 - 7) + (((7 + 7)/7)^{7-7/7+7}) \\
&:= 8 + ((88 \times (88 + 8) + (88 + 88)/8) + 8) \\
&:= ((9 + 9) \times ((9 + 9)/9)^9) - (9 \times 9 \times 9 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8487 &:= (1 + 1 + 1) \times ((1 + (11 + 11)) \times (1 + (1 + 11^{1+1}))) \\
&:= 22 + (((2 \times (2 \times 22 + 2))^2) + 2/2) \\
&:= 3 \times (3 \times (((3 + 3)^3 - 3) + 3^{3+3})) + 3) \\
&:= 4 + (((44 - 4) \times (4^4 - 44)) - 4/4) + 4) \\
&:= 5 + ((5 + 5)/5 \times ((5555/5 + 5^5) + 5)) \\
&:= 6 + ((66/6) \times (((6 \times 6/(6 + 6))^6 + 6 \times 6) + 6)) \\
&:= (77/7 \times (777 - 7/7)) - 7 \times 7 \\
&:= (8/8 + 8) \times ((888 - 8/8 - 8) + 8 \times 8) \\
&:= 9 \times (((9 + 9)/9)^{9/9+9}) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8488 &:= (1+1) \times ((1+1)^{11} + (((1+1+11)^{1+1+1}) - 1)) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 22) \\
&:= ((3/3+3)^3) + ((3+3)^3 \times (33+3+3)) \\
&:= 4 + (((44-4) \times (4^4-44)) + 4) \\
&:= 5^5 + (((5-(5+5)/5)^5) + 5 \times (5-5/5)^5) \\
&:= 6 \times 6 + (((6+6)/6)^{6+6}) + 66 \times 66 \\
&:= 7 + (77/7 \times ((777-7) + 7/7)) \\
&:= 8 + (((88 \times (88+8) + 8) + 8) + 8) + 8 \\
&:= 9 + (9 \times 999 - ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8489 &:= ((1+1)^{1+1+11}) + (11 \times (1+1+1)^{1+1+1}) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 2/2) + 22 \\
&:= 3 + (((33 \times (3+3)^3) + (33/3)^3) + 3^3) \\
&:= 4 + (((44-4) \times (4^4-44)) + 4/4) + 4 \\
&:= ((5+5+5) \times (555 + (55/5))) - 5/5 \\
&:= 66 + ((6+6) \times (666 + 6 \times 6) - 6/6) \\
&:= ((7/7+7) \times (7777/7 - 7 \times 7)) - 7 \\
&:= 8 + (((88 \times (88+8) + 8/8) + 8) + 8) + 8 \\
&:= 9 + ((9 \times 999 - ((9+9)/9)^9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8490 &:= (1+1) \times ((1+1)^{11} + ((1+1+11)^{1+1+1})) \\
&:= 2 + (((2 \times (2 \times 22 + 2))^2) + 22) + 2 \\
&:= (3+3) \times (((33/3)^3 + 3 \times 3^3) + 3) \\
&:= 44 + ((4 \times 44 \times (44+4)) - (4+4)/4) \\
&:= (5+5+5) \times (555 + (55/5)) \\
&:= 66 + (6+6) \times (666 + 6 \times 6) \\
&:= (7-7/7) \times ((77/7 \times ((7+7)/7)^7) + 7) \\
&:= (8 - (8+8)/8) \times ((88 \times (8+8) - 8/8) + 8) \\
&:= 99/9 + (9 \times 999 - ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8491 &:= 1 + ((1+1) \times ((1+1)^{11} + ((1+1+11)^{1+1+1}))) \\
&:= (22 \times ((2^{2+2} \times (22+2)) + 2)) - 2/2 \\
&:= 3^3 + ((3 \times 3^3 + 33/3)^{3-3/3}) \\
&:= 44 + ((4 \times 44 \times (44+4)) - 4/4) \\
&:= 5/5 + ((5+5+5) \times (555 + (55/5))) \\
&:= 66 + ((6+6) \times (666 + 6 \times 6) + 6/6) \\
&:= 77 \times 777/7 - (7 \times 7 + 7) \\
&:= (8 - 8/8) \times (88/8 \times 888/8 - 8) \\
&:= 9 + (((99/9) + 9 \times 9)^{(9+9)/9} + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8492 &:= (1+1) \times (1 + ((1+1)^{11} + ((1+1+11)^{1+1+1}))) \\
&:= 22 \times ((2^{2+2} \times (22+2)) + 2) \\
&:= 33 + ((33 \times (3+3)^3) + (33/3)^3) \\
&:= 44 + (4 \times 44 \times (44+4)) \\
&:= (5+5)/5 + ((5+5+5) \times (555 + (55/5))) \\
&:= 66 + ((6+6) \times (666 + 6 \times 6) + ((6+6)/6)) \\
&:= 77/7 \times (((7+7)/7 - 7) + 777) \\
&:= 88 \times (88+8) + (88/((8+8)/8)) \\
&:= 9 \times 999 + ((9-9 \times 999)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8493 &:= ((111-1-1-11)^{1+1}) - 1111 \\
&:= 2/2 + (22 \times ((2^{2+2} \times (22+2)) + 2)) \\
&:= (3 \times ((3 \times (3^{3+3} + (3+3)^3)) - 3)) - 3 \\
&:= 44 + ((4 \times 44 \times (44+4)) + 4/4) \\
&:= ((5-(5+5)/5)^5) + (5 \times (55 \times (5 \times 5 + 5))) \\
&:= (6^{6-6/6}) + (((6 \times 6/(6+6))^6) - (6+6)) \\
&:= (7 \times (7 \times (7+7) \times (7+7))) - 7777/7 \\
&:= (88/8+8) \times (8 \times (8 \times 8 - 8) - 8/8) \\
&:= 9 + (((9+9)/9 + 99) \times (((9+9+9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8494 &:= 1 + (((111-1-1-11)^{1+1}) - 1111) \\
&:= 2 + (22 \times ((2^{2+2} \times (22+2)) + 2)) \\
&:= (3 \times (3+3))^3 + ((3-3/3) \times (33/3)^3) \\
&:= 44 + ((4 \times 44 \times (44+4)) + (4+4)/4) \\
&:= ((5 \times 5 + 5/5) + 5) \times (5 \times 55 - 5/5) \\
&:= ((6+6) \times (666 + 6 \times 6 + 6)) - (6+6)/6 \\
&:= 7 + ((77/7 \times (777-7/7)) - 7 \times 7) \\
&:= (8 \times 8 - ((8+8)/8)) \times ((8 \times (8+8) + 8/8) + 8) \\
&:= (9 \times (9 \times (99+9) - (9+9+9))) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8495 &:= ((1+11)^{1+1} \times ((11^{1+1} - 1)/(1+1) - 1)) - 1 \\
&:= (2 \times 22)^2 + ((2/2+2)^{2 \times (2+2)} - 2) \\
&:= (33/3+3)^3 + (3^3 \times ((3+3)^3 - 3)) \\
&:= (4 \times ((4+4) \times (4^4+4) + 44)) - 4/4 \\
&:= 5 + ((5+5+5) \times (555 + (55/5))) \\
&:= ((6+6) \times (666 + 6 \times 6 + 6)) - 6/6 \\
&:= 7 + ((77/7 \times ((777-7) + 7/7)) + 7) \\
&:= 8 \times 8 + (88 \times (88+8) - (8/8+8+8)) \\
&:= (((9+9)/9)^9) + (999 \times (9-9/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8496 &:= (1+11)^{1+1} \times ((11^{1+1} - 1)/(1+1) - 1) \\
&:= 2^{2+2} \times (((22+2/2)^2) + 2) \\
&:= 3 \times ((3 \times (3^{3+3} + (3+3)^3)) - 3) \\
&:= 4 \times ((4+4) \times (4^4+4) + 44) \\
&:= (5/5+5)^5 + ((5/5+5) \times (5 \times 5 \times 5 - 5)) \\
&:= (6+6) \times (666 + 6 \times 6 + 6) \\
&:= (7/7+7) \times (7777/7 - 7 \times 7) \\
&:= 8 \times 8 + (88 \times (88+8) - (8+8)) \\
&:= (9-9/9) \times ((9 \times (99+9+9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8497 &:= (11^{1+1+1+1}) - ((1+1+1) \times (1+1)^{11}) \\
&:= (2 \times 22)^2 + (2/2+2)^{2 \times (2+2)} \\
&:= 3/3 + (3 \times ((3 \times (3^{3+3} + (3+3)^3)) - 3)) \\
&:= 44 \times 44 + ((4-4/4)^{4+4}) \\
&:= 5 \times 5 + ((5+5)/5 \times (5555/5 + 5^5)) \\
&:= 6/6 + ((6+6) \times (666 + 6 \times 6 + 6)) \\
&:= 77 \times 777/7 - (7/7 + 7 \times 7) \\
&:= 8/8 + ((88 \times (88+8) - (8+8)) + 8 \times 8) \\
&:= 9 + ((9 \times 999 - ((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8498 &:= 1 + ((11^{1+1+1+1}) - ((1+1+1) \times (1+1)^{11})) \\
&:= 2 + (2^{2+2} \times (((22+2/2)^2) + 2)) \\
&:= ((3-3/3)^{3 \times 3}) + ((3+3) \times (33/3)^3) \\
&:= 4/4 + (((4-4/4)^{4+4}) + 44 \times 44) \\
&:= 5 + ((5 \times (55 \times (5 \times 5 + 5))) + ((5-(5+5)/5)^5)) \\
&:= (6+6)/6 + ((6+6) \times (666 + 6 \times 6 + 6)) \\
&:= 77 \times 777/7 - 7 \times 7 \\
&:= (8-8/8) \times (8 \times (8 \times 8 + 88) - ((8+8)/8)) \\
&:= 9 + (((9 \times 999 - ((9+9)/9)^9) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8499 &:= 1 + (1 + ((11^{1+1+1+1}) - ((1+1+1) \times (1+1)^{11}))) \\
&:= 2 + ((2/2+2)^{2 \times (2+2)} + (2 \times 22)^2) \\
&:= 3 + (3 \times ((3 \times (3^{3+3} + (3+3)^3)) - 3)) \\
&:= 4 + ((4 \times ((4+4) \times (4^4+4) + 44)) - 4/4) \\
&:= 5 + (((5 \times 5 + 5/5) + 5) \times (5 \times 55 - 5/5)) \\
&:= (6^{6-6/6}) + (((6 \times 6/(6+6))^6) - 6) \\
&:= 7/7 + (77 \times 777/7 - 7 \times 7) \\
&:= 8 + ((8-8/8) \times (88/8 \times 888/8 - 8)) \\
&:= 9 + ((9 \times 999 - ((9+9)/9)^9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8500 &:= (1+1) \times (((1+1)^{1+1+1}) + (11 \times (1 + (1+1+11)))) \\
&:= 2 \times ((2 \times ((2 \times 22 + 2)^2 - 2)) + 22) \\
&:= (3/3+33) \times (((3^{3+3} + 3)/3) + 3) + 3 \\
&:= 4 + (4 \times ((4+4) \times (4^4+4) + 44)) \\
&:= 5 \times (((55 \times (5 \times 5 + 5)) - 5) + 55) \\
&:= (6^{6-6/6}) + ((66 \times 66 - 6 - 6)/6) \\
&:= (7+7)/7 + (77 \times 777/7 - 7 \times 7) \\
&:= 8 + (88 \times (88+8) + (88/((8+8)/8))) \\
&:= ((9-9/9) + 9) \times ((9 \times 999 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8501 &:= ((111-1-1) \times (111 - (11 \times (1+1+1)))) - 1 \\
&:= 2 + (((2/2+2)^{2 \times (2+2)} + (2 \times 22)^2) + 2) \\
&:= (3 \times (3 \times (3^{3+3} + (3+3)^3))) - (3/3+3) \\
&:= 4 + (((4-4/4)^{4+4}) + 44 \times 44) \\
&:= (5/5+5)^5 + (5 \times (5 \times (5 \times 5 + 5) - 5)) \\
&:= (6^{6-6/6}) + ((66 \times 66 - 6)/6) \\
&:= 7 + (((77/7 \times (777-7/7)) - 7 \times 7) + 7) \\
&:= 8 \times 8 + (88 \times (88+8) - (88/8)) \\
&:= 9 + (((9-9 \times 999)/(9+9)) + 9 \times 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8502 &:= (111-1-1) \times (111 - (11 \times (1+1+1))) \\
&:= 2 + (((2 \times 2 \times 22 + 2)^2) + (22-2)^2) \\
&:= (3^3 - 3/3) \times (333 - (3+3)) \\
&:= 4 + (((4-4/4)^{4+4}) + 44 \times 44) + 4/4 \\
&:= 5/5 + ((5 \times (5 \times (5 \times 5 + 5) - 5)) + (5/5 + 5)^5) \\
&:= 6 + ((6+6) \times (666 + 6 \times 6 + 6)) \\
&:= (7/7+77) \times (77/7 + 7 \times (7+7)) \\
&:= 8 \times 8 + (88 \times (88+8) + (8-88)/8) \\
&:= (9/9 + 99 + 9) \times (9 \times 9 - ((9+9+9)/9))
\end{aligned}$$

- 8503 := $11 \times (((1 + (1 + 1 + 1)^{1+1+1})^{1+1}) - 11)$
:= $222 + (((2 \times 2 \times 22 + 2/2) + 2)^2)$
:= $3/3 + ((3^3 - 3/3) \times (333 - (3 + 3)))$
:= $44 + ((4 \times 44 \times (44 + 4)) + 44/4)$
:= $55 + (((5 + 5)/5)^5 \times (5 \times 55 - (55/5)))$
:= $(6^{6-6/6}) + ((66 \times 66 + 6)/6)$
:= $77/7 \times ((777 - (77/7)) + 7)$
:= $8 \times 8 + (88 \times (88 + 8) - (8/8 + 8))$
:= $(9 \times (9 \times (99 + 9) - (9 + 9 + 9))) - (9 + 9)/9$
- 8504 := $1 + (11 \times (((1 + (1 + 1 + 1)^{1+1+1})^{1+1}) - 11))$
:= $2 \times (((2 \times (2 \times 22 + 2)^2) - 2) + 22)$
:= $(3 \times (3 \times (3^{3+3} + (3 + 3)^3))) - 3/3$
:= $4 + ((4 \times ((4 + 4) \times (4^4 + 4) + 44)) + 4)$
:= $(5 - 5/5) \times ((5 \times 5 - (5 - 5/5)^5) + 5^5)$
:= $(6^{6-6/6}) + (((6 \times 6/(6 + 6))^6) - 6/6)$
:= $7 + (77 \times 777/7 - (7/7 + 7 \times 7))$
:= $8 \times 8 + (88 \times (88 + 8) - 8)$
:= $((9 + 9)/9)^9 + 999 \times (9 - 9/9)$
- 8505 := $(11 - 1 - 1)^{1+1} \times (111 - ((1 + 1) \times (1 + 1 + 1)))$
:= $(22^2 + 2)/2 \times ((22/2 + 22) + 2)$
:= $3 \times (3 \times (3^{3+3} + (3 + 3)^3))$
:= $4 + (((4 - 4/4)^{4+4}) + 44 \times 44) + 4$
:= $((5 \times 5 + 5) + 5) \times ((5 - (5 + 5)/5)^5)$
:= $(6^{6-6/6}) + ((6 \times 6/(6 + 6))^6)$
:= $7 + (77 \times 777/7 - 7 \times 7)$
:= $8/8 + ((88 \times (88 + 8) - 8) + 8 \times 8)$
:= $9 \times (9 \times (99 + 9) - (9 + 9 + 9))$
- 8506 := $1 + ((11 - 1 - 1)^{1+1} \times (111 - ((1 + 1) \times (1 + 1 + 1))))$
:= $2 \times 22 + (((2 \times (2 \times 22 + 2)^2) - 2)$
:= $3/3 + (3 \times (3 \times (3^{3+3} + (3 + 3)^3)))$
:= $44 + ((4 \times (44 \times (44 + 4) + 4)) - (4 + 4)/4)$
:= $5 + ((5 \times (5 \times (5 \times 5 + 5) - 5)) + (5/5 + 5)^5)$
:= $6/6 + (((6 \times 6/(6 + 6))^6) + (6^{6-6/6}))$
:= $7 + ((77 \times 777/7 - 7 \times 7) + 7/7)$
:= $8 \times 8 + ((88 \times (88 + 8) - 8) + ((8 + 8)/8))$
:= $9/9 + (9 \times (9 \times (99 + 9) - (9 + 9 + 9)))$
- 8507 := $11 + ((1 + 11)^{1+1} \times ((11^{1+1} - 1)/(1 + 1) - 1))$
:= $2 \times 22 + (((2 \times (2 \times 22 + 2)^2) - 2/2)$
:= $3 + ((3 \times (3 \times (3^{3+3} + (3 + 3)^3))) - 3/3)$
:= $44 + ((4 \times (44 \times (44 + 4) + 4)) - 4/4)$
:= $(5/5 + 5)^5 + ((555 + 5^5)/5 - 5)$
:= $6 + (((66 \times 66 - 6)/6) + (6^{6-6/6}))$
:= $(77/7 \times (777 - ((7 + 7 + 7)/7))) - 7$
:= $8 \times 8 + ((88 \times (88 + 8) - (8 + 8)) + (88/8))$
:= $(9 + 9)/9 + (9 \times (9 \times (99 + 9) - (9 + 9 + 9)))$
- 8508 := $(1 + 11) \times (11 \times 111 - (1 + 1)^{11-1-1})$
:= $2 \times ((2 \times (2 \times 22 + 2)^2) + 22)$
:= $3 + (3 \times (3 \times (3^{3+3} + (3 + 3)^3)))$
:= $44 + (4 \times (44 \times (44 + 4) + 4))$
:= $(5/5 + 5)^5 + (((555 + 5^5) + 5)/5) - 5$
:= $66 + ((6^{6-6/6}) + 666)$
:= $7 \times 7 + (77/7 \times (777 - (7/7 + 7)))$
:= $8 \times 8 + (88 \times (88 + 8) - 8 \times 8/(8 + 8))$
:= $(99 + 9)/9 \times (9 \times 9 \times 9 - (99/9 + 9))$
- 8509 := $((1 + 1) \times ((1 + 1 + 111)^{1+1}) - 11)/(1 + 1 + 1)$
:= $2/2 + (((2 \times (2 \times 22 + 2)^2) + 2 \times 22)$
:= $3 + ((3 \times (3 \times (3^{3+3} + (3 + 3)^3))) + 3/3)$
:= $44 + ((4 \times (44 \times (44 + 4) + 4)) + 4/4)$
:= $(55 \times (5 \times (5 \times 5 + 5) + 5)) - (55/5 + 5)$
:= $6 + (((66 \times 66 + 6)/6) + (6^{6-6/6}))$
:= $(77/7 \times (777 + 7/7)) - 7 \times 7$
:= $8 + ((88 \times (88 + 8) - (88/8)) + 8 \times 8)$
:= $9 + (((9 - 9/9) + 9) \times ((9 \times 999 + 9)/(9 + 9)))$
- 8510 := $(1 + (11 + 11)) \times ((1111 - 1)/(1 + 1 + 1))$
:= $2 + (((2 \times (2 \times 22 + 2)^2) + 2 \times 22)$
:= $3 + (((3 \times (3 \times (3^{3+3} + (3 + 3)^3))) - 3/3) + 3)$
:= $(4^4 - 4 - 4)/4 + (4 \times 44 \times (44 + 4))$
:= $5 + (((5 \times 5 + 5) + 5) \times ((5 - (5 + 5)/5)^5))$
:= $6 + (((6 \times 6/(6 + 6))^6) - 6/6) + (6^{6-6/6})$
:= $7 + (77/7 \times ((777 - (77/7)) + 7))$
:= $8 \times 8 + (88 \times (88 + 8) - ((8 + 8)/8))$
:= $(9/9 + 9) \times (((9 - 9 \times 9 \times 9)/(9 + 9)) + 9 \times 99)$
- 8511 := $1 + ((1 + (11 + 11)) \times ((1111 - 1)/(1 + 1 + 1)))$
:= $((222 + 2) \times ((2 + 2 + 2)^2 + 2)) - 2/2$
:= $3 + ((3 \times (3 \times (3^{3+3} + (3 + 3)^3))) + 3)$
:= $((4^4 - 4)/4) + (4 \times 44 \times (44 + 4))$
:= $55 + (((5/5 + 5)^5 + 5^5/5) + 55)$
:= $6 + (((6 \times 6/(6 + 6))^6) + (6^{6-6/6}))$
:= $7777 + ((7 \times (7 \times (7 + 7) + 7)) - 7/7)$
:= $8 \times 8 + (88 \times (88 + 8) - 8/8)$
:= $((9 \times 9 - (9/9 + 9)) \times (999/9 + 9)) - 9$
- 8512 := $(1 + 1) \times ((1 + 111) \times (1 + (111/(1 + 1 + 1))))$
:= $(222 + 2) \times ((2 + 2 + 2)^2 + 2)$
:= $((3/3 + 3)^3) \times ((3 \times 33 + 33) + 3/3)$
:= $4 \times (44 \times (44 + 4) + 4 \times 4)$
:= $(5/5 + 5)^5 + (555 + 5^5)/5$
:= $((6 + 6)/6)^6 \times (66 + 6/6 + 66)$
:= $(7 + 7) \times ((7/7 + 7) \times (77 - 7/7))$
:= $8 \times 8 + 88 \times (88 + 8)$
:= $(9 - 9/9) \times ((9 \times (99 + 9 + 9)) + (99/9))$
- 8513 := $(1 + ((1 + 1) \times ((1 + 1 + 111)^{1+1}))) / (1 + 1 + 1)$
:= $2/2 + ((222 + 2) \times ((2 + 2 + 2)^2 + 2))$
:= $(3 \times ((3 \times (3^{3+3} + (3 + 3)^3)) + 3)) - 3/3$
:= $4/4 + (4 \times (44 \times (44 + 4) + 4 \times 4))$
:= $(5/5 + 5)^5 + (((555 + 5^5) + 5)/5)$
:= $(6^{6-6/6}) + ((66/6) \times (66 + 6/6))$
:= $77 + ((77 - 7/7) \times 777/7)$
:= $8/8 + (88 \times (88 + 8) + 8 \times 8)$
:= $9 \times 9 \times 99 + (((9 + 9)/9)^9) - (9 + 9)$
- 8514 := $1 + ((1 + ((1 + 1) \times ((1 + 1 + 111)^{1+1}))) / (1 + 1 + 1))$
:= $2 + ((222 + 2) \times ((2 + 2 + 2)^2 + 2))$
:= $3 \times ((3 \times (3^{3+3} + (3 + 3)^3)) + 3)$
:= $(4 \times (4 + 4) + 4/4) \times ((4 + 4)/4 + 4^4)$
:= $(55 \times (5 \times (5 \times 5 + 5) + 5)) - 55/5$
:= $66 \times (((666/6 + 6) + 6) + 6)$
:= $77/7 \times (777 - ((7 + 7 + 7)/7))$
:= $8 \times 8 + (88 \times (88 + 8) + ((8 + 8)/8))$
:= $9 + (9 \times (9 \times (99 + 9) - (9 + 9 + 9)))$
- 8515 := $((1 + 11)^{1+1+1+1}) - (11 \times 1111)$
:= $2 + (((222 + 2) \times ((2 + 2 + 2)^2 + 2)) + 2/2)$
:= $3/3 + (3 \times ((3 \times (3^{3+3} + (3 + 3)^3)) + 3))$
:= $4 + ((4 \times 44 \times (44 + 4)) + ((4^4 - 4)/4))$
:= $(55 \times (5 \times (5 \times 5 + 5) + 5)) - 5 - 5$
:= $(6/6 + 6 + 6) \times (666 - 66/6)$
:= $(7 \times ((7 \times (7 \times (7 + 7) + 77)) - 7)) - 77/7$
:= $8 \times 8 + ((88 \times (88 + 8) - 8) + (88/8))$
:= $9 + ((9 \times (9 \times (99 + 9) - (9 + 9 + 9))) + 9/9)$
- 8516 := $1 + (((1 + 11)^{1+1+1+1}) - (11 \times 1111))$
:= $2 \times ((2 \times ((2 \times 22 + 2)^2 + 2)) + 22)$
:= $33/3 + (3 \times (3 \times (3^{3+3} + (3 + 3)^3)))$
:= $4 + (4 \times (44 \times (44 + 4) + 4 \times 4))$
:= $5/5 + ((55 \times (5 \times (5 \times 5 + 5) + 5)) - (5 + 5))$
:= $66 + (((6 + 6)/6) \times ((66 - 6/6)^{(6+6)/6}))$
:= $7 + ((77/7 \times (777 + 7/7)) - 7 \times 7)$
:= $8 \times 8 + (88 \times (88 + 8) + 8 \times 8/(8 + 8))$
:= $99/9 + (9 \times (9 \times (99 + 9) - (9 + 9 + 9)))$
- 8517 := $(1 + 1 + 1) \times (1111 + ((1 + 11)^{1+1+1+1}))$
:= $2/2 + (((2^{2+2} + 2)^2) + (2^{22/2+2}))$
:= $3333 + (3 \times (3 \times 3 + 3)^3)$
:= $4 + ((4 \times (44 \times (44 + 4) + 4 \times 4)) + 4/4)$
:= $5 + ((555 + 5^5)/5 + (5/5 + 5)^5)$
:= $6 + (((6 \times 6/(6 + 6))^6) + (6^{6-6/6})) + 6$
:= $7 + ((77/7 \times ((777 - (77/7)) + 7)) + 7)$
:= $(8/8 + 8 + 8) \times (8 \times 8 \times 8 - 88/8)$
:= $((9 - 9/9) + 9) \times (((9 + 9)/9)^9) - (99/9)$

- 8518 := $(1 + (1111 \times (1 + (11 + 11)))) / (1 + 1 + 1)$
:= $2 + (((2^{2+2} + 2)^2) + (2^{22/2+2}))$
:= $3/3 + ((3 \times (3 \times 3 + 3)^3) + 3333)$
:= $4 + ((4 \times (4 + 4) + 4/4) \times ((4 + 4)/4 + 4^4))$
:= $(55 \times (5 \times (5 \times 5 + 5) + 5)) - ((5 + 5)/5 + 5)$
:= $6 + (((6 + 6)/6)^6 \times (66 + 6/6 + 66))$
:= $(77/7 \times (777 - ((7 + 7)/7))) - 7$
:= $8 + ((88 \times (88 + 8) - ((8 + 8)/8)) + 8 \times 8)$
:= $9 \times 9 \times 99 + ((9 \times 999 - 9)/(9 + 9))$
- 8519 := $1 + ((1 + (1111 \times (1 + (11 + 11)))) / (1 + 1 + 1))$
:= $22 + ((2/2 + 2)^{2 \times (2+2)} + (2 \times 22)^2)$
:= $3 + ((3 \times (3 \times (3^{3+3} + (3 + 3)^3))) + 33/3)$
:= $((44 - 4) \times ((4/4 - 44) + 4^4)) - 4/4$
:= $(55 \times (5 \times (5 \times 5 + 5) + 5)) - (5/5 + 5)$
:= $66666/6 - (6 \times (6 \times (66 + 6)))$
:= $7 \times 7 + (77 \times (777 - 7)/7)$
:= $8 + ((88 \times (88 + 8) - 8/8) + 8 \times 8)$
:= $9 \times 9 \times 99 + ((9 \times 999 + 9)/(9 + 9))$
- 8520 := $(11^{1+1} - 1) \times (((1 + 11)^{1+1} / (1 + 1)) - 1)$
:= $(2 - 22) \times (22 - (2 \times (222 + 2)))$
:= $3 + ((3 \times (3 \times 3 + 3)^3) + 3333)$
:= $(44 - 4) \times ((4/4 - 44) + 4^4)$
:= $(55 \times (5 \times (5 \times 5 + 5) + 5)) - 5$
:= $6 + (66 \times (((666/6 + 6) + 6) + 6))$
:= $7 + (((77 - 7/7) \times 777/7) + 77)$
:= $8 + (88 \times (88 + 8) + 8 \times 8)$
:= $(9 \times 9 - (9/9 + 9)) \times (999/9 + 9)$
- 8521 := $1 + ((11^{1+1} - 1) \times (((1 + 11)^{1+1} / (1 + 1)) - 1))$
:= $2/2 + ((2 - 22) \times (22 - (2 \times (222 + 2))))$
:= $((3 \times (3 + 3) + 3)^3) - (3^{3+3} + 33/3)$
:= $4/4 + ((44 - 4) \times ((4/4 - 44) + 4^4))$
:= $5/5 + ((55 \times (5 \times (5 \times 5 + 5) + 5)) - 5)$
:= $6 + ((6/6 + 6 + 6) \times (666 - 66/6))$
:= $7 + (77/7 \times (777 - ((7 + 7 + 7)/7)))$
:= $8 + ((88 \times (88 + 8) + 8/8) + 8 \times 8)$
:= $9 \times 9 \times 99 + (((9 + 9)/9)^9) - (9/9 + 9)$
- 8522 := $((1 + 1)^{1+1+11}) + ((1 + 1 + 1) \times (111 - 1))$
:= $2 + ((2 - 22) \times (22 - (2 \times (222 + 2))))$
:= $3 \times 33 + (((3 + 3)^3 \times (33 + 3 + 3)) - 3/3)$
:= $4 + (((4 \times (4 + 4) + 4/4) \times ((4 + 4)/4 + 4^4)) + 4)$
:= $(5 + 5)/5 + ((55 \times (5 \times (5 \times 5 + 5) + 5)) - 5)$
:= $6 \times 66 + (((6 + 6)/6)^{6/6+6+6}) - 66$
:= $(77/7 \times (777 - 7/7)) - (7 + 7)$
:= $8 + ((88 \times (88 + 8) + ((8 + 8)/8)) + 8 \times 8)$
:= $9 \times 9 \times 99 + (((9 + 9)/9)^9) - 9$
- 8523 := $1 + (((1 + 1)^{1+1+11}) + ((1 + 1 + 1) \times (111 - 1)))$
:= $22/2 + ((222 + 2) \times ((2 + 2 + 2)^2 + 2))$
:= $3 \times (((3 \times (3^{3+3} + (3 + 3)^3)) + 3) + 3)$
:= $44 + (((44 - 4) \times (4^4 - 44)) - 4/4)$
:= $(55 \times (5 \times (5 \times 5 + 5) + 5)) - (5 + 5)/5$
:= $6 + (((6 \times 6 / (6 + 6))^6 + (6^{6-6/6})) + 6) + 6$
:= $7 + (((77/7 \times (777 + 7/7)) - 7 \times 7) + 7)$
:= $8 \times 8 + (88 \times (88 + 8) + (88/8))$
:= $99 + (9 \times 9 - 9) \times (99 + 9 + 9)$
- 8524 := $(1 + 1 + 1) \times 111 + (((1 + 1)^{1+1+11}) - 1)$
:= $2 \times ((2 \times (((2 \times 22 + 2)^2 + 2) + 2)) + 22)$
:= $3 + (((3 \times (3 + 3) + 3)^3) - (3^{3+3} + 33/3))$
:= $44 + ((44 - 4) \times (4^4 - 44))$
:= $(55 \times (5 \times (5 \times 5 + 5) + 5)) - 5/5$
:= $6 + (((6 + 6)/6)^6 \times (66 + 6/6 + 66)) + 6$
:= $(7 \times ((7 \times (7 \times (7 + 7) + 77)) - 7)) - (7 + 7)/7$
:= $8 \times 8 + (88 \times (88 + 8) + ((88 + 8)/8))$
:= $9/9 + ((9 \times 9 - 9) \times (99 + 9 + 9) + 99)$
- 8525 := $(1 + 1 + 1) \times 111 + ((1 + 1)^{1+1+11})$
:= $222 + ((2^{22/2+2}) + 222/2)$
:= $333 + ((3 - 3/3)^{3 \times 3 + 3/3 + 3})$
:= $44 + (((44 - 4) \times (4^4 - 44)) + 4/4)$
:= $55 \times (5 \times (5 \times 5 + 5) + 5)$
:= $66/6 \times (66 \times (6 + 6) - (66/6 + 6))$
:= $77/7 \times (777 - ((7 + 7)/7))$
:= $88 + (88 \times (88 + 8) - (88/8))$
:= $99/9 \times (((9 - 9/9) \times (99 - 9/9)) - 9)$
- 8526 := $1 + ((1 + 1 + 1) \times 111 + ((1 + 1)^{1+1+11}))$
:= $2^{2+2+2} + (((2 \times (2 \times 22 + 2))^2) - 2)$
:= $(3 + 3) \times (3 \times (3^3 + 3) + (33/3)^3)$
:= $((44 - 4)/4 + 4) \times ((4/4 + 4)^4 - 4 \times 4)$
:= $5/5 + (55 \times (5 \times (5 \times 5 + 5) + 5))$
:= $66 + ((6 \times 6 - 6) \times (6 \times 6 \times 6 + 66))$
:= $7 \times ((7 \times (7 \times (7 + 7) + 77)) - 7)$
:= $(8/8 - 88) \times ((8 - 88)/8 - 88)$
:= $(99 - 9/9) \times (99 - (99 + 9)/9)$
- 8527 := $1 + (1 + ((1 + 1 + 1) \times 111 + ((1 + 1)^{1+1+11})))$
:= $2^{2+2+2} + (((2 \times (2 \times 22 + 2))^2) - 2/2)$
:= $3/3 + (3 \times ((3 \times 3 + 3)^3 + 3) + 3333)$
:= $4^4 + ((44 \times (444 - 4^4)) - 4/4)$
:= $(5 + 5)/5 + (55 \times (5 \times (5 \times 5 + 5) + 5))$
:= $6 + (((6/6 + 6 + 6) \times (666 - 66/6)) + 6)$
:= $7/7 + (7 \times ((7 \times (7 \times (7 + 7) + 77)) - 7))$
:= $88 + (88 \times (88 + 8) - (8/8 + 8))$
:= $((99 - (99/9)) \times (99 - ((9 + 9)/9))) - 9$
- 8528 := $((1 + 1)^{1+1+11}) + ((1 + 1 + 1) \times (1 + 111))$
:= $2 \times (2 \times ((2 \times 22 + 2)^2 + 2^{2+2}))$
:= $(3^3 - 3/3) \times ((333 - (3 + 3)) + 3/3)$
:= $4 \times ((44 \times (44 + 4) + 4 \times 4) + 4)$
:= $5 + ((55 \times (5 \times (5 \times 5 + 5) + 5)) - ((5 + 5)/5))$
:= $(6/6 + 6 + 6) \times (((6 - 66)/6) + 666)$
:= $7 \times 7 \times 7 + (((7 + 7)/7)^{7-7/7+7}) - 7$
:= $88 + (88 \times (88 + 8) - 8)$
:= $(9/9 + 9 \times 9) \times (((9 \times 9 + 9)/(9 + 9)) + 99)$
- 8529 := $1 + (((1 + 1)^{1+1+11}) + ((1 + 1 + 1) \times (1 + 111)))$
:= $((22 + 2/2)^2) + (22 - 2)^{2/2+2}$
:= $3 \times ((33/3 + 3)^3 + 3 \times 33)$
:= $(4 + 4)^4 + (4444 - 44/4)$
:= $5 + ((55 \times (5 \times (5 \times 5 + 5) + 5)) - 5/5)$
:= $(6 + 6) \times (6 + 6) \times (66 - 6) - 666/6$
:= $(77/7 \times (777 - 7/7)) - 7$
:= $8/8 + ((88 \times (88 + 8) - 8) + 88)$
:= $9 + ((9 \times 9 - (9/9 + 9)) \times (999/9 + 9))$
- 8530 := $(1 + 1) \times (((1 + 1)^{1+1+11}) + (1 + 1 + 11)^{1+1})$
:= $2 + (((2 \times (2 \times 22 + 2))^2) + 2^{2+2+2})$
:= $3/3 + (3 \times ((33/3 + 3)^3 + 3 \times 33))$
:= $(4 + 4)^4 + ((4 - 44)/4 + 4444)$
:= $5 + (55 \times (5 \times (5 \times 5 + 5) + 5))$
:= $((66 - 6)/6) \times ((6 \times (6 + 6) \times (6 + 6)) - (66/6))$
:= $7/7 + ((77/7 \times (777 - 7/7)) - 7)$
:= $88 + ((88 \times (88 + 8) - 8) + ((8 + 8)/8))$
:= $9 \times 9 \times 99 + (((9 + 9)/9)^9) - 9/9$
- 8531 := $1 + ((1 + 1) \times (((1 + 1)^{1+1+11}) + (1 + 1 + 11)^{1+1}))$
:= $2 + ((22 - 2)^{2/2+2} + ((22 + 2/2)^2))$
:= $((3 \times (3 + 3) + 3)^3) - (3^{3+3} + 3/3)$
:= $(4 + 4)^4 + 4444 - (4/4 + 4 + 4)$
:= $5 + ((55 \times (5 \times (5 \times 5 + 5) + 5)) + 5/5)$
:= $((6 + 6 + 6) \times (6 \times (66 + 6 + 6) + 6)) - 6/6$
:= $77 \times 777/7 - (((7 + 7)/7 + 7) + 7)$
:= $(88/8 + 8) \times (8 \times (8 \times 8 - 8) + 8/8)$
:= $9 \times 9 \times 99 + ((9 + 9)/9)^9$
- 8532 := $(1 + 1) \times (1 + (((1 + 1)^{1+1+11}) + (1 + 1 + 11)^{1+1}))$
:= $2 \times ((22 \times (((2^{2+2} - 2)^2) - 2)) - 2)$
:= $((3 \times (3 + 3) + 3)^3) - 3^{3+3}$
:= $(4 + 4)^4 + (4444 - (4 + 4))$
:= $5 + ((55 \times (5 \times (5 \times 5 + 5) + 5)) + ((5 + 5)/5))$
:= $(6 + 6 + 6) \times (6 \times (66 + 6 + 6) + 6)$
:= $7 + (77/7 \times (777 - ((7 + 7)/7)))$
:= $((88 + 8)/8) \times ((8 \times 88 - 8/8) + 8)$
:= $(99 + 9) \times (9 \times 9 - ((9 + 9)/9))$

- 8533 := $(1 + ((1 + 1) \times (1 + 1 + 1))) \times (11 \times 111 - (1 + 1))$
:= $2/2 + (2 \times ((22 \times ((2^{2+2} - 2)^2) - 2)) - 2)$
:= $3/3 + (((3 \times (3 + 3)) + 3)^3) - 3^{3+3}$
:= $((4 + 4) \times (4 \times 4^4 + 44)) - 44/4$
:= $5 + (((55 \times (5 \times (5 \times 5 + 5) + 5)) - ((5 + 5)/5)) + 5)$
:= $6/6 + ((6 + 6 + 6) \times (6 \times (66 + 6 + 6) + 6))$
:= $77 \times 777/7 - (7 + 7)$
:= $((88 + 8) \times (8/8 + 88)) - 88/8$
:= $9/9 + ((99 + 9) \times (9 \times 9 - ((9 + 9)/9)))$
- 8534 := $1 + ((1 + ((1 + 1) \times (1 + 1 + 1))) \times (11 \times 111 - (1 + 1)))$
:= $(22 \times ((22 - 2)^2 - 2)) - 222$
:= $3 + (((3 \times (3 + 3)) + 3)^3) - (3^{3+3} + 3/3)$
:= $(4 + 4)^4 + (4444 - ((4 + 4)/4 + 4))$
:= $5 + (((55 \times (5 \times (5 \times 5 + 5) + 5)) - 5/5) + 5)$
:= $(6 \times 6 - ((6 + 6)/6)) \times (6 \times (6 \times 6 + 6) - 6/6)$
:= $7/7 + (77 \times 777/7 - (7 + 7))$
:= $88 + (88 \times (88 + 8) - ((8 + 8)/8))$
:= $(9 + 9)/9 + ((99 + 9) \times (9 \times 9 - ((9 + 9)/9)))$
- 8535 := $(111111/(1 + 1 + 11)) - 1 - 11$
:= $(2 \times (22 \times ((2^{2+2} - 2)^2) - 2)) - 2/2$
:= $3 + (((3 \times (3 + 3)) + 3)^3) - 3^{3+3}$
:= $(4 + 4)^4 + (4444 - (4/4 + 4))$
:= $5 + ((55 \times (5 \times (5 \times 5 + 5) + 5)) + 5)$
:= $666/6 + (6 + 6) \times (666 + 6 \times 6)$
:= $7 \times 7 \times 7 + (((7 + 7)/7)^{7-7/7+7})$
:= $88 + (88 \times (88 + 8) - 8/8)$
:= $9 + ((99 - 9/9) \times (99 - (99 + 9)/9))$
- 8536 := $11 \times ((111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 1)$
:= $2 \times (22 \times ((2^{2+2} - 2)^2) - 2)$
:= $3 + (((3 \times (3 + 3)) + 3)^3) - 3^{3+3} + 3/3$
:= $(4 + 4)^4 + (4444 - 4)$
:= $55/5 + (55 \times (5 \times (5 \times 5 + 5) + 5))$
:= $66/6 \times (((666 - 6)/6) + 666)$
:= $77/7 \times (777 - 7/7)$
:= $88 + 88 \times (88 + 8)$
:= $(99 - (99/9)) \times (99 - ((9 + 9)/9))$
- 8537 := $1 + (11 \times ((111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 1))$
:= $2/2 + (2 \times (22 \times ((2^{2+2} - 2)^2) - 2))$
:= $((33 + 3 + 3) \times ((3 + 3)^3 + 3)) - (3/3 + 3)$
:= $4/4 + ((4444 - 4) + (4 + 4)^4)$
:= $((55 + 5)/5) + (55 \times (5 \times (5 \times 5 + 5) + 5))$
:= $6 + (((6 + 6 + 6) \times (6 \times (66 + 6 + 6) + 6)) - 6/6)$
:= $7/7 + (77/7 \times (777 - 7/7))$
:= $8/8 + (88 \times (88 + 8) + 88)$
:= $9 + (((9 + 9)/9)^{99/9} + 9 \times (9 \times 9 \times 9 - 9))$
- 8538 := $(1 + 1) \times ((1 + 1)^{11} + (((1 + 1) \times 1111) - 1))$
:= $2 + (2 \times (22 \times ((2^{2+2} - 2)^2) - 2))$
:= $((33 + 3 + 3) \times ((3 + 3)^3 + 3)) - 3$
:= $(4 + 4)^4 + (4444 - (4 + 4)/4)$
:= $(5/5 + 5) \times (((5 + 5)/5)^{55/5} - 5^5/5)$
:= $6 + ((6 + 6 + 6) \times (6 \times (66 + 6 + 6) + 6))$
:= $77 \times 777/7 - ((7 + 7)/7 + 7)$
:= $88 + (88 \times (88 + 8) + ((8 + 8)/8))$
:= $9 \times 9 \times (99 + 9) - (999/9 + 99)$
- 8539 := $((1 + 1) \times ((1 + 1)^{11} + ((1 + 1) \times 1111))) - 1$
:= $(2 \times (2^{22/2} + 2222)) - 2/2$
:= $3/3 + (((33 + 3 + 3) \times ((3 + 3)^3 + 3)) - 3)$
:= $(4 + 4)^4 + (4444 - 4/4)$
:= $((5 + 5 + 5) \times (5^5/5 - 55)) - 55/5$
:= $6 + (((6 + 6 + 6) \times (6 \times (66 + 6 + 6) + 6)) + 6/6)$
:= $77 \times 777/7 - (7/7 + 7)$
:= $(888/8 \times (88 - 88/8)) - 8$
:= $9 + ((9 \times 9 \times 99 - 9/9) + ((9 + 9)/9)^9)$
- 8540 := $(1 + 1) \times ((1 + 1)^{11} + ((1 + 1) \times 1111))$
:= $2 \times (2^{22/2} + 2222)$
:= $((33 - 3/3) + 3) \times ((3^{3+3} + 3)/3)$
:= $(4 + 4)^4 + 4444$
:= $5 + (((55 \times (5 \times (5 \times 5 + 5) + 5)) + 5) + 5)$
:= $(6/6 + 6) \times ((66 \times 666/6 - 6)/6)$
:= $77 \times 777/7 - 7$
:= $8 + (((88 + 8)/8) \times ((8 \times 88 - 8/8) + 8))$
:= $9 + (9 \times 9 \times 99 + ((9 + 9)/9)^9)$
- 8541 := $1 + ((1 + 1) \times ((1 + 1)^{11} + ((1 + 1) \times 1111)))$
:= $2/2 + (2 \times (2^{22/2} + 2222))$
:= $(33 + 3 + 3) \times ((3 + 3)^3 + 3)$
:= $4/4 + (4444 + (4 + 4)^4)$
:= $5 + ((55 \times (5 \times (5 \times 5 + 5) + 5)) + (55/5))$
:= $(66 + 6/6 + 6) \times (666/6 + 6)$
:= $7/7 + (77 \times 777/7 - 7)$
:= $8 + (((88 + 8) \times (8/8 + 88)) - (88/8))$
:= $9999 - 9 \times 9 \times (9 + 9)$
- 8542 := $(1 + 1) \times (1 + ((1 + 1)^{11} + ((1 + 1) \times 1111)))$
:= $2 + (2 \times (2^{22/2} + 2222))$
:= $3/3 + ((33 + 3 + 3) \times ((3 + 3)^3 + 3))$
:= $(4 + 4)^4 + (4444 + (4 + 4)/4)$
:= $(555555/(55 + 5 + 5)) - 5$
:= $6 + ((66/6) \times (((666 - 6)/6) + 666))$
:= $(7 + 7)/7 + (77 \times 777/7 - 7)$
:= $((88 + 8) \times (8/8 + 88)) - (8 + 8)/8$
:= $9/9 + (9999 - 9 \times 9 \times (9 + 9))$
- 8543 := $1 + ((1 + 1) \times (1 + ((1 + 1)^{11} + ((1 + 1) \times 1111))))$
:= $2 + ((2 \times (2^{22/2} + 2222)) + 2/2)$
:= $3 + (((33 - 3/3) + 3) \times ((3^{3+3} + 3)/3))$
:= $((4 + 4) \times (4 \times 4^4 + 44)) - 4/4$
:= $5 \times 5 \times 55 + (((5 + 5)/5 + 5) \times (5 - 5/5)^5)$
:= $66/6 + ((6 + 6 + 6) \times (6 \times (66 + 6 + 6) + 6))$
:= $7 + (77/7 \times (777 - 7/7))$
:= $((88 + 8) \times (8/8 + 88)) - 8/8$
:= $(9 + 9)/9 + (9999 - 9 \times 9 \times (9 + 9))$
- 8544 := $(1 + 1) \times ((1 + 1)^{11} + ((1 + 1) \times (1 + 1111)))$
:= $2 \times ((2^{22/2} + 2222) + 2)$
:= $3 + ((33 + 3 + 3) \times ((3 + 3)^3 + 3))$
:= $(4 + 4) \times (4 \times 4^4 + 44)$
:= $(5/5 + 5) \times ((5 \times (5 \times 55 + 5) + 5)) - 5/5$
:= $(6^{6-6/6}) + ((6 + 6) \times ((6 + 6)/6)^6)$
:= $77 \times 777/7 - (7 + 7 + 7)/7$
:= $(88 + 8) \times (8/8 + 88)$
:= $(99 + 9)/9 \times ((9 \times 9 \times 9 - (9 + 9)) + 9/9)$
- 8545 := $(111111/(1 + 1 + 11)) - 1 - 1$
:= $(2/2 + 2)^{2+2} + ((2 \times (2 \times 22 + 2))^2)$
:= $3 + (((33 + 3 + 3) \times ((3 + 3)^3 + 3)) + 3/3)$
:= $4/4 + ((4 + 4) \times (4 \times 4^4 + 44))$
:= $((5 + 5 + 5) \times (5^5/5 - 55)) - 5$
:= $6/6 + (((6 + 6) \times ((6 + 6)/6)^6) + (6^{6-6/6}))$
:= $77 \times 777/7 - (7 + 7)/7$
:= $8/8 + ((88 + 8) \times (8/8 + 88))$
:= $9 \times 9 + (((99/9) + 9 \times 9)^{(9+9)/9})$
- 8546 := $(111111/(1 + 1 + 11)) - 1$
:= $2 + (((2 \times 2 \times 22 + 2)^2) + 2 \times 222)$
:= $(33 \times (((3/3 + 3)^{3/3+3} + 3)) - 3/3)$
:= $(4 + 4)/4 + ((4 + 4) \times (4 \times 4^4 + 44))$
:= $5/5 + (((5 + 5 + 5) \times (5^5/5 - 55)) - 5)$
:= $(666/6 \times (66/6 + 66)) - 6/6$
:= $77 \times 777/7 - 7/7$
:= $(8 + 8)/8 + ((88 + 8) \times (8/8 + 88))$
:= $9 \times 999 + ((9 - 9 \times 9 \times 99)/(9 + 9))$
- 8547 := $111111/(1 + 1 + 11)$
:= $222222/(22 + 2 + 2)$
:= $33 \times (((3/3 + 3)^{3/3+3} + 3))$
:= $444/4 \times ((4 - 4/4)^4 - 4)$
:= $555555/(55 + 5 + 5)$
:= $666/6 \times (66/6 + 66)$
:= $77 \times 777/7$
:= $888/8 \times (88 - 88/8)$
:= $999999/(99 + 9 + 9)$

$$\begin{aligned}
\blacktriangleright 8548 &:= 1 + (111111/(1+1+11)) \\
&:= 2 \times ((2 \times ((2 \times 22 + 2)^2 + 22)) - 2) \\
&:= 3/3 + (33 \times (((3/3+3)^{3/3+3}) + 3)) \\
&:= 4 + ((4+4) \times (4 \times 4^4 + 44)) \\
&:= ((5+5+5) \times (5^5/5 - 55)) - (5+5)/5 \\
&:= 6/6 + (666/6 \times (66/6 + 66)) \\
&:= 7/7 + 77 \times 777/7 \\
&:= 8/8 + (888/8 \times (88 - 88/8)) \\
&:= 9 + (((9 \times 9 \times 99 - 9/9) + ((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8549 &:= 1 + (1 + (111111/(1+1+11))) \\
&:= 2 + (222222/(22+2+2)) \\
&:= (3 \times (3+3))^3 + ((33/3+3)^3 - 3^3) \\
&:= 4 + (((4+4) \times (4 \times 4^4 + 44)) + 4/4) \\
&:= ((5+5+5) \times (5^5/5 - 55)) - 5/5 \\
&:= (6+6)/6 + (666/6 \times (66/6 + 66)) \\
&:= (7+7)/7 + 77 \times 777/7 \\
&:= 88 \times (88+8) + (8888/88) \\
&:= 9 + ((9 \times 9 \times 99 + ((9+9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8550 &:= 1 + (1 + (1 + (111111/(1+1+11)))) \\
&:= (2 \times (2 \times ((2 \times 22 + 2)^2 + 22))) - 2 \\
&:= (3^3 + 3) \times (3 \times (3 \times 33 - 3) - 3) \\
&:= 4 + (((4+4) \times (4 \times 4^4 + 44)) + (4+4)/4) \\
&:= (5+5+5) \times (5^5/5 - 55) \\
&:= (6 - 6 \times 6) \times (666/6 - 6 \times 66) \\
&:= 7 + ((77/7 \times (777 - 7/7)) + 7) \\
&:= ((8+8)/8 + 88) \times (88 - 8/8 + 8) \\
&:= 9 + (9999 - 9 \times 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8551 &:= 1 + (1 + (1 + (1 + (111111/(1+1+11)))))) \\
&:= (2 \times (2 \times ((2 \times 22 + 2)^2 + 22))) - 2/2 \\
&:= 3/3 + (3^3 + 3) \times (3 \times (3 \times 33 - 3) - 3) \\
&:= 4 + (444/4 \times ((4 - 4/4)^4 - 4)) \\
&:= 5/5 + ((5+5+5) \times (5^5/5 - 55)) \\
&:= (66/6 + 6) \times ((6+6) \times (6 \times 6 + 6) - 6/6) \\
&:= (77/7 \times (777 + 7/7)) - 7 \\
&:= 8 + (((88+8) \times (8/8 + 88)) - 8/8) \\
&:= ((9 - 9/9) + 9) \times (((9+9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8552 &:= 1111 + (((1 + 11^{1+1})^{1+1})/(1+1)) - 1) \\
&:= 2 \times (2 \times ((2 \times 22 + 2)^2 + 22)) \\
&:= 33/3 + ((33+3+3) \times ((3+3)^3 + 3)) \\
&:= 4 + (((4+4) \times (4 \times 4^4 + 44)) + 4) \\
&:= 5 + (555555/(55+5+5)) \\
&:= 6 \times (66 - 6) + (((6+6)/6)^{6/6+6+6}) \\
&:= 7 + (77 \times 777/7 - ((7+7)/7)) \\
&:= 8 + ((88+8) \times (8/8 + 88)) \\
&:= 9/9 + (((9 - 9/9) + 9) \times (((9+9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8553 &:= 1111 + (((1 + 11^{1+1})^{1+1})/(1+1)) \\
&:= 2/2 + (2 \times (2 \times ((2 \times 22 + 2)^2 + 22))) \\
&:= 3 + ((3^3 + 3) \times 3 \times (3 \times 33 - 3) - 3) \\
&:= 4 + (((4+4) \times (4 \times 4^4 + 44)) + 4/4 + 4) \\
&:= (5 - (5+5)/5) \times ((5/5 - 5 \times 55) + 5^5) \\
&:= 6 + (666/6 \times (66/6 + 66)) \\
&:= 7 + (77 \times 777/7 - 7/7) \\
&:= 8 + (((88+8) \times (8/8 + 88)) + 8/8) \\
&:= 9 + ((99+9)/9 \times ((9 \times 9 \times 9 - (9+9)) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8554 &:= (1 + 11 \times 111) \times (1 + ((1+1) \times (1+1+1))) \\
&:= 2 + (2 \times (2 \times ((2 \times 22 + 2)^2 + 22))) \\
&:= (3^3 - 3/3) \times (333 - (3/3 + 3)) \\
&:= (44 - 4)/4 + ((4+4) \times (4 \times 4^4 + 44)) \\
&:= 5 + (((5+5+5) \times (5^5/5 - 55)) - 5/5) \\
&:= (6/6 + 6) \times ((66 \times 666/6 + 6)/6) \\
&:= 7 + 77 \times 777/7 \\
&:= 8 + (((88+8) \times (8/8 + 88)) + ((8+8)/8)) \\
&:= 9 + (((99/9) + 9 \times 9)^{(9+9)/9}) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8555 &:= 1 + ((1 + 11 \times 111) \times (1 + ((1+1) \times (1+1+1)))) \\
&:= 2 + ((2 \times (2 \times ((2 \times 22 + 2)^2 + 22))) + 2/2) \\
&:= (33/3)^3 + ((33 \times ((3+3)^3 + 3)) - 3) \\
&:= 44/4 + ((4+4) \times (4 \times 4^4 + 44)) \\
&:= 5 + ((5+5+5) \times (5^5/5 - 55)) \\
&:= (66 - 6/6 - 6) \times ((6+6) \times (6+6) + 6/6) \\
&:= 7 + (77 \times 777/7 + 7/7) \\
&:= 8 + (888/8 \times (88 - 88/8)) \\
&:= (9 \times (9 \times (99+9) - 9)) - ((999+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8556 &:= 1 + (1 + ((1 + 11 \times 111) \times (1 + ((1+1) \times (1+1+1)))))) \\
&:= 2 \times ((2 \times ((2 \times 22 + 2)^2 + 22)) + 2) \\
&:= 3 \times ((33/3 + 3)^3 + (3 \times (33+3))) \\
&:= 4 \times 4 + (4444 + (4+4)^4) \\
&:= (5/5 + 5)^5 + ((5^5 - 5)/5 - 5/5) \\
&:= (6+6) \times ((666 + (66/6)) + 6 \times 6) \\
&:= 7 + (77 \times 777/7 + ((7+7)/7)) \\
&:= ((88+8)/8) \times ((8 \times 88 + 8/8) + 8) \\
&:= (9 \times (9 \times (99+9) - 9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8557 &:= 11 + ((111111/(1+1+11)) - 1) \\
&:= ((2 \times 22) - 2/2) \times (((22 - 2)^2 - 2)/2) \\
&:= 3 + ((3^3 - 3/3) \times (333 - (3/3 + 3))) \\
&:= 4 \times 4 + ((4444 + (4+4)^4) + 4/4) \\
&:= (5/5 + 5)^5 + ((5^5 - 5/5)/(5 - 5/5)) \\
&:= 66 \times (6+6) + (((6^{6-6/6}) - (66/6)) \\
&:= ((77 - 7)/7) + 77 \times 777/7 \\
&:= 88 \times (88+8) + ((888 - 8 - 8)/8) \\
&:= ((9 - 999)/9) + (9 \times (9 \times (99+9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8558 &:= 11 + (111111/(1+1+11)) \\
&:= 22 \times ((22 - 2)^2 - 22/2) \\
&:= (33/3)^3 + (33 \times ((3+3)^3 + 3)) \\
&:= (444 - 4)/4 + (4 \times 44 \times (44 + 4)) \\
&:= 5 + ((5 - (5+5)/5) \times ((5/5 - 5 \times 55) + 5^5)) \\
&:= 66/6 \times ((666 + 6)/6 + 666) \\
&:= 77/7 \times (777 + 7/7) \\
&:= 88 \times (88+8) + (888 - 8)/8 \\
&:= 9 + (((9 \times 9 \times 99 + ((9+9)/9)^9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8559 &:= 1 + (11 + (111111/(1+1+11))) \\
&:= 2/2 + (22 \times ((22 - 2)^2 - 22/2)) \\
&:= 3 \times ((33 \times (3 \times 3^3 + 3)) + 3 \times 3^3) \\
&:= 444/4 + (4 \times 44 \times (44 + 4)) \\
&:= ((5+5)/5 + 5 \times 5) \times ((5^5 - 5)/(5+5) + 5) \\
&:= 6 + ((666/6 \times (66/6 + 66)) + 6) \\
&:= 7/7 + (77/7 \times (777 + 7/7)) \\
&:= 888/8 + 88 \times (88+8) \\
&:= (9 \times (9 \times (99+9) - 9)) - (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8560 &:= 1 + (1 + (11 + (111111/(1+1+11)))) \\
&:= 2 + (22 \times ((22 - 2)^2 - 22/2)) \\
&:= (3 \times 3^3 - 3/3) \times ((3 \times (33+3)) - 3/3) \\
&:= (4 \times 4 + 4) \times (444 - 4 \times 4) \\
&:= 5 + (((5+5+5) \times (5^5/5 - 55)) + 5) \\
&:= 6 + ((6/6 + 6) \times ((66 \times 666/6 + 6)/6)) \\
&:= 7 + ((77 \times 777/7 - 7/7) + 7) \\
&:= 8 + (((88+8) \times (8/8 + 88)) + 8) \\
&:= (9/9 - 9 \times 9) \times (9/9 - (99+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8561 &:= (1 + ((1+1) \times (1+1+1))) \times (1 + (1 + 11 \times 111)) \\
&:= 2 + ((22 \times ((22 - 2)^2 - 22/2)) + 2/2) \\
&:= 3 + ((33 \times ((3+3)^3 + 3)) + (33/3)^3) \\
&:= 4/4 + ((4 \times 4 + 4) \times (444 - 4 \times 4)) \\
&:= 5 + (((5^5 - 5)/(5 - 5/5)) + (5/5 + 5)^5) \\
&:= (6/6 + 6) \times ((6 \times (6 \times 6 \times 6 - (6+6))) - 6/6) \\
&:= 7 + (77 \times 777/7 + 7) \\
&:= 8 + (((88+8) \times (8/8 + 88)) + 8/8 + 8) \\
&:= 9/9 + ((9/9 - 9 \times 9) \times (9/9 - (99+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8562 &:= 1 + ((1 + ((1+1) \times (1+1+1))) \times (1 + (1 + 11 \times 111))) \\
&:= 2 + ((22 \times ((22 - 2)^2 - 22/2)) + 2) \\
&:= (3+3) \times (((33/3)^3 - 3) + 3 \times 33) \\
&:= (4+4)/4 + ((4 \times 4 + 4) \times (444 - 4 \times 4)) \\
&:= (5^5 - 5)/(5+5) + (5 \times (55 \times (5 \times 5 + 5))) \\
&:= 66 \times (6+6) + (((6^{6-6/6}) - 6) \\
&:= 7 + ((77 \times 777/7 + 7/7) + 7) \\
&:= 8 + (((88+8) \times (8/8 + 88)) + ((8+8)/8)) + 8) \\
&:= 99 + (((99/9) + 9 \times 9)^{(9+9)/9}) - 9/9)
\end{aligned}$$

- 8563 := $1 + (1 + ((1 + ((1 + 1) \times (1 + 1 + 1))) \times (1 + (1 + 11 \times 11))))$
:= $22/2 + (2 \times (2 \times ((2 \times 22 + 2)^2 + 22))$
:= $3 + ((3 \times 3^3 - 3/3) \times ((3 \times (33 + 3)) - 3/3))$
:= $4 + ((4 \times 44 \times (44 + 4)) + 444/4)$
:= $(5^5 + 5)/(5 + 5) + (5 \times (55 \times (5 \times 5 + 5)))$
:= $6/6 + ((66 \times (6 + 6) - 6) + (6^{6-6/6}))$
:= $7 + ((77 \times 777/7 + ((7 + 7)/7)) + 7)$
:= $8 + ((888/8 \times (88 - 88/8)) + 8)$
:= $99 + (((99/9) + 9 \times 9)^{(9+9)/9})$
- 8564 := $(((((11 \times (1 + 11)) - 1)^{1+1}) - 11)/(1 + 1)) - 11$
:= $2 \times ((2 \times ((2 \times 22 + 2)^2 + 22) + 2)$
:= $333 + ((3 \times (33/3 + 3)^3) - 3/3)$
:= $4 + ((4 \times 4 + 4) \times (444 - 4 \times 4))$
:= $5^5 + (555/5 \times (55 - (5/5 + 5)))$
:= $6 + ((66/6) \times ((666 + 6)/6 + 666))$
:= $(7 \times (7 \times (7 \times (7 + 7) + 77))) - 77/7$
:= $8 + (((88 + 8)/8) \times ((8 \times 88 + 8/8) + 8))$
:= $9 \times 9 \times 99 + ((99 \times 99 + 9)/(9 + 9))$
- 8565 := $11 + ((1 + 11 \times 111) \times (1 + ((1 + 1) \times (1 + 1 + 1))))$
:= $22^2 + ((2^{22/2+2}) - 222/2)$
:= $333 + (3 \times (33/3 + 3)^3)$
:= $4 + (((4 \times 4 + 4) \times (444 - 4 \times 4)) + 4/4)$
:= $(5 + 5 + 5) \times ((5^5 + 5)/5 - 55)$
:= $6 + (((666/6 \times (66/6 + 66)) + 6) + 6)$
:= $7 + (77/7 \times (777 + 7/7))$
:= $8 \times (8 + 8) + (88 \times (88 + 8) - (88/8))$
:= $9 + ((9 \times (9 \times (99 + 9) - 9)) - 999/9)$
- 8566 := $(1 + 1) \times (((1 + 1) \times ((1 + 1 + 11)^{1+1+1})) - 111)$
:= $2 \times ((2 + 2 + 2)^2 \times ((22/2)^2 - 2)) - 2$
:= $3/3 + ((3 \times (33/3 + 3)^3) + 333)$
:= $4 + (((4 \times 4 + 4) \times (444 - 4 \times 4)) + (4 + 4)/4)$
:= $5/5 + ((5 + 5 + 5) \times ((5^5 + 5)/5 - 55))$
:= $66 \times (6 + 6) + ((6^{6-6/6}) - ((6 + 6)/6))$
:= $7 + ((77/7 \times (777 + 7/7)) + 7/7)$
:= $8 + (88 \times (88 + 8) + (888 - 8)/8)$
:= $(9 \times (9 \times (99 + 9) - 9)) - ((9 + 9)/9 + 99)$
- 8567 := $(1 + 1 + 11) \times (((1 + 1) \times ((1 + 1 + 1) \times (111 - 1))) - 111)$
:= $222/2 + (2 \times (2 \times ((2 \times 22 + 2)^2 - 2)))$
:= $((3 \times 3^3 + 3) \times (3 \times 33 + 3)) - 3/3$
:= $((4^4 - 4) \times ((4 - 44)/4 + 44)) - 4/4$
:= $5 + ((5 \times (55 \times (5 \times 5 + 5))) + (5^5 - 5)/(5 + 5))$
:= $66 \times (6 + 6) + ((6^{6-6/6}) - 6/6)$
:= $(7 \times (7 \times (7 \times (7 + 7) + 77))) - (7/7 + 7)$
:= $8 + (88 \times (88 + 8) + 888/8)$
:= $(9 \times (9 \times (99 + 9) - 9)) - (9/9 + 99)$
- 8568 := $(11^{1+1} - (1 + 1)) \times ((1 + 11)^{1+1}/(1 + 1))$
:= $2 \times ((2 + 2 + 2)^2 \times ((22/2)^2 - 2))$
:= $(3 \times 3^3 + 3) \times (3 \times 33 + 3)$
:= $(4^4 - 4) \times ((4 - 44)/4 + 44)$
:= $5^5 + (5555 - (555 + 5)/5)$
:= $(6 + 6) \times ((6 + 6) \times (66 - 6) - 6)$
:= $(7/7 + 7) \times (77 \times (7 + 7) - 7)$
:= $(8/8 + 8) \times (888 + 8 \times 8)$
:= $(9 \times (9 \times (99 + 9) - 9)) - 99$
- 8569 := $11 \times (1 + (1 + (111 \times (1 + ((1 + 1) \times (1 + 1 + 1))))))$
:= $(22^2 \times (22 - 2)) - 2222/2$
:= $3/3 + ((3 \times 3^3 + 3) \times (3 \times 33 + 3))$
:= $4/4 + ((4^4 - 4) \times ((4 - 44)/4 + 44))$
:= $5^5 + (5555 - 555/5)$
:= $6/6 + (66 \times (6 + 6) + (6^{6-6/6}))$
:= $77/7 \times (((7 + 7)/7) + 777)$
:= $8/8 + ((8/8 + 8) \times (888 + 8 \times 8))$
:= $9 + ((9/9 - 9 \times 9) \times (9/9 - (99 + 9)))$
- 8570 := $((1 + (((11 \times (1 + 11)) - 1)^{1+1}))/ (1 + 1)) - 11$
:= $2 + (2 \times ((2 + 2 + 2)^2 \times ((22/2)^2 - 2)))$
:= $3 + (((3 \times 3^3 + 3) \times (3 \times 33 + 3)) - 3/3)$
:= $4^4 + ((4 \times (4 + 4) \times (4^4 + 4)) - ((4 + 4)/4 + 4))$
:= $5 + ((5 + 5 + 5) \times ((5^5 + 5)/5 - 55))$
:= $(6 + 6)/6 + (66 \times (6 + 6) + (6^{6-6/6}))$
:= $7/7 + (77/7 \times (((7 + 7)/7) + 777))$
:= $(8 + 8)/8 + ((8/8 + 8) \times (888 + 8 \times 8))$
:= $(9 + 9)/9 + ((9 \times (9 \times (99 + 9) - 9)) - 99)$
- 8571 := $(1 + 1 + 1)^{11-1-1} - (1 + 11111)$
:= $2 + ((22^2 \times (22 - 2)) - (2222/2))$
:= $3 + ((3 \times 3^3 + 3) \times (3 \times 33 + 3))$
:= $4^4 + ((4 \times (4 + 4) \times (4^4 + 4)) - (4/4 + 4))$
:= $(5/5 + 5)^5 + ((55 + 5^5)/(5 - 5/5))$
:= $66 + (((6 \times 6/(6 + 6))^6) + (6^{6-6/6}))$
:= $7 + ((7 \times (7 \times (7 \times (7 + 7) + 77))) - (77/7))$
:= $8 + (((888/8 \times (88 - 88/8)) + 8) + 8)$
:= $((99/9) \times (9 \times 99 - 999/9)) - 9$
- 8572 := $(1 + 1 + 1)^{11-1-1} - 11111$
:= $2 \times (((2 + 2 + 2)^2 \times ((22/2)^2 - 2)) + 2)$
:= $3 + (((3 \times 3^3 + 3) \times (3 \times 33 + 3)) + 3/3)$
:= $4^4 + ((4 \times (4 + 4) \times (4^4 + 4)) - 4)$
:= $5 \times 5 + (555555/(55 + 5 + 5))$
:= $6 + (((6^{6-6/6}) - ((6 + 6)/6)) + 66 \times (6 + 6))$
:= $7 + ((77/7 \times (777 + 7/7)) + 7)$
:= $((88 + 8)/8) \times (88/8 + 8 \times 88) - 8$
:= $9 + (((99/9) + 9 \times 9)^{(9+9)/9}) + 99$
- 8573 := $1 + (((1 + 1 + 1)^{11-1-1}) - 11111)$
:= $222/2 + (((2 \times (2 \times 22 + 2))^2) - 2)$
:= $(3 \times (3 + 3))^3 + ((33/3 + 3)^3 - 3)$
:= $4/4 + (((4 \times (4 + 4) \times (4^4 + 4)) - 4) + 4^4)$
:= $5 + ((5555 - (555 + 5)/5) + 5^5)$
:= $6 + (((6^{6-6/6}) - 6/6) + 66 \times (6 + 6))$
:= $(7 \times (7 \times (7 \times (7 + 7) + 77))) - (7 + 7)/7$
:= $8 + ((88 \times (88 + 8) - (88/8)) + 8 \times (8 + 8))$
:= $9 + (((99 \times 99 + 9)/(9 + 9)) + 9 \times 9 \times 99)$
- 8574 := $(((((11 \times (1 + 11)) - 1)^{1+1}) - 11)/(1 + 1)) - 1$
:= $22 + (2 \times (2 \times ((2 \times 22 + 2)^2 + 22)))$
:= $3 + (((3 \times 3^3 + 3) \times (3 \times 33 + 3)) + 3)$
:= $4^4 + ((4 \times (4 + 4) \times (4^4 + 4)) - (4 + 4)/4)$
:= $5 + ((5555 - 555/5) + 5^5)$
:= $6 + (66 \times (6 + 6) + (6^{6-6/6}))$
:= $(7 \times (7 \times (7 \times (7 + 7) + 77))) - 7/7$
:= $8 \times (8 + 8) + (88 \times (88 + 8) - ((8 + 8)/8))$
:= $9 \times 9 \times 99 + (9999 - 9)/(9 + 9)$
- 8575 := $(((((11 \times (1 + 11)) - 1)^{1+1}) - 11)/(1 + 1))$
:= $222/2 + ((2 \times (2 \times 22 + 2))^2)$
:= $((3/3 - 3) + 3^3) \times ((3/3 + 3 + 3)^3)$
:= $4^4 + ((4 \times (4 + 4) \times (4^4 + 4)) - 4/4)$
:= $5^5 + (5 + 5) \times (555 - 5 - 5)$
:= $(6/6 + 6) \times ((6 \times 6 - 6/6)^{(6+6)/6})$
:= $7 \times (7 \times (7 \times (7 + 7) + 77))$
:= $8 \times (8 + 8) + (88 \times (88 + 8) - 8/8)$
:= $9 \times (9 \times (99 + 9) - 9 - 9) - 99/9$
- 8576 := $1 + ((((((11 \times (1 + 11)) - 1)^{1+1}) - 11)/(1 + 1)))$
:= $((22 + 2)^2) + (22 - 2)^{2/2+2}$
:= $(3 \times (3 + 3))^3 + (33/3 + 3)^3$
:= $4 \times ((4 + 4) \times ((4^4 + 4 + 4) + 4))$
:= $(5/5 + 5)^5 + (5 \times (5 \times ((5 + 5)/5)^5))$
:= $(66 + 6/6) \times (((6 + 6)/6)^{6+6+6})$
:= $7/7 + (7 \times (7 \times (7 \times (7 + 7) + 77)))$
:= $8 \times ((8 \times (8 \times (8 + 8) + 8)) - (8 + 8))$
:= $9 \times (9 \times (99 + 9) - 9 - 9) - 9/9 - 9$
- 8577 := $1 + (1 + ((((((11 \times (1 + 11)) - 1)^{1+1}) - 11)/(1 + 1))))$
:= $2 + (((2 \times (2 \times 22 + 2))^2) + 222/2)$
:= $(3^3 \times (333 - 3)) - 333$
:= $4/4 + ((4 \times (4 + 4) \times (4^4 + 4)) + 4^4)$
:= $5^5 + ((5 + 5) \times (555 - 5 - 5) + ((5 + 5)/5))$
:= $6 + (((6 \times 6/(6 + 6))^6) + (6^{6-6/6}) + 66)$
:= $(7 + 7)/7 + (7 \times (7 \times (7 \times (7 + 7) + 77)))$
:= $8/8 + (88 \times (88 + 8) + 8 \times (8 + 8))$
:= $9 \times (9 \times (99 + 9) - 9 - 9) - 9$

- 8578 := (((((11 × (1 + 11)) - 1)¹⁺¹) - 1)/(1 + 1)) - 1 - 1
:= 22 × (22 - 2)² - 222
:= 3 + (((3/3 - 3) + 3³) × ((3/3 + 3 + 3)³)
:= 4⁴ + ((4 × (4 + 4) × (4⁴ + 4)) + (4 + 4)/4)
:= 55 × 55 + (5555 - ((5 + 5)/5))
:= ((6 + 6)/6) × (66 × 66 - (66 + 6/6))
:= 7 × 7 + ((77/7 × (777 - 7/7)) - 7)
:= 8 × (8 + 8) + (88 × (88 + 8) + ((8 + 8)/8))
:= 9/9 + (9 × (9 × (99 + 9) - 9 - 9) - 9)
- 8579 := (((((11 × (1 + 11)) - 1)¹⁺¹) - 1)/(1 + 1)) - 1
:= 2/2 + 22 × (22 - 2)² - 222
:= 3 + ((33/3 + 3)³ + (3 × (3 + 3))³)
:= (4 × (((4 - 4/4) + 4)⁴) - 4⁴) - 4/4
:= 55 × 55 + (5555 - 5/5)
:= (66 × (((6 + 6)/6)⁶ + 66)) - 6/6
:= 7 + (((77/7 × (777 + 7/7)) + 7) + 7)
:= 88/8 + ((8/8 + 8) × (888 + 8 × 8))
:= (9 + 9)/9 + (9 × (9 × (99 + 9) - 9 - 9) - 9)
- 8580 := (((11 × (1 + 11)) - 1)¹⁺¹) - 1)/(1 + 1)
:= 22 × ((2 × ((2²⁺² - 2)²)) - 2)
:= (3³ - 3/3) × (333 - 3)
:= 4 × (((4 - 4/4) + 4)⁴) - 4⁴
:= 55 × ((5⁵ - 5)/(5 × 5 - 5))
:= 66 × (((6 + 6)/6)⁶ + 66)
:= (7/7 + 77) × (777 - 7/7)
:= ((88 + 8)/8) × (88/8 + 8 × 88)
:= 99/9 × (9 × 99 - 999/9)
- 8581 := (1 + (((11 × (1 + 11)) - 1)¹⁺¹))/(1 + 1)
:= 2/2 + (22 × ((2 × ((2²⁺² - 2)²)) - 2))
:= 3/3 + ((3³ - 3/3) × (333 - 3))
:= 4/4 + (4 × (((4 - 4/4) + 4)⁴) - 4⁴)
:= 5/5 + (55 × 55 + 5555)
:= 6/6 + (66 × (((6 + 6)/6)⁶ + 66))
:= 7 + ((7 × (7 × (7 × (7 + 7) + 77))) - 7/7)
:= 8/8 + (((88 + 8)/8) × (88/8 + 8 × 88))
:= 9 + (((99/9) + 9 × 9)^{(9+9)/9}) + 99 + 9)
- 8582 := 1 + ((1 + (((11 × (1 + 11)) - 1)¹⁺¹))/(1 + 1))
:= 2 + (22 × ((2 × ((2²⁺² - 2)²)) - 2))
:= 3 + (((33/3 + 3)³ + (3 × (3 + 3))³) + 3)
:= (4 + 4)/4 + (4 × (((4 - 4/4) + 4)⁴) - 4⁴)
:= (5 + 5)/5 + (55 × 55 + 5555)
:= 6 + ((66 + 6/6) × (((6 + 6)/6)^{6/6+6}))
:= 7 + (7 × (7 × (7 × (7 + 7) + 77)))
:= 8 + ((88 × (88 + 8) - ((8 + 8)/8)) + 8 × (8 + 8))
:= 9 × 999 - (((99/9 + 9)^{(9+9)/9}) + 9)
- 8583 := 1 + (1 + ((1 + (((11 × (1 + 11)) - 1)¹⁺¹))/(1 + 1)))
:= 22² + (((2 × 2 × 22 + 2)²) - 2/2)
:= 3 + ((3³ - 3/3) × (333 - 3))
:= 4 + ((4 × (((4 - 4/4) + 4)⁴) - 4⁴) - 4/4)
:= 5 + ((5555 - ((5 + 5)/5)) + 55 × 55)
:= 6 × 6 + (666/6 × (66/6 + 66))
:= 7 + ((7 × (7 × (7 × (7 + 7) + 77))) + 7/7)
:= 8 + ((88 × (88 + 8) - 8/8) + 8 × (8 + 8))
:= 9 × (9 × (99 + 9) - 9 - 9) - (9 + 9 + 9)/9
- 8584 := (111/(1 + 1 + 1)) × (111 + 11¹⁺¹)
:= 22² + ((2 × 2 × 22 + 2)²)
:= 3 + (((3³ - 3/3) × (333 - 3)) + 3/3)
:= 4 + (4 × (((4 - 4/4) + 4)⁴) - 4⁴)
:= 5 + ((5555 - 5/5) + 55 × 55)
:= ((6 + 6)/6) × (66 × 66 - ((6 + 6)/6)⁶)
:= 7 + ((7 × (7 × (7 × (7 + 7) + 77))) + ((7 + 7)/7))
:= 8 + (88 × (88 + 8) + 8 × (8 + 8))
:= 9 × (9 × (99 + 9) - 9 - 9) - (9 + 9)/9
- 8585 := (1 + (1 + 1 + 1 + 1)) × (((1 + 11)¹⁺¹⁺¹) - 11)
:= (22/2)² + ((2 × (2 × 22 + 2))²)
:= 3 × 3 + ((33/3 + 3)³ + (3 × (3 + 3))³)
:= 4 + ((4 × (((4 - 4/4) + 4)⁴) - 4⁴) + 4/4)
:= 5 + (55 × 55 + 5555)
:= 6 + ((66 × (((6 + 6)/6)⁶ + 66)) - 6/6)
:= 7 × 7 + (77/7 × (777 - 7/7))
:= (8/8 + 8 + 8) × ((8 × 8 × 8 - 8) + 8/8)
:= 9 × (9 × (99 + 9) - 9 - 9) - 9/9
- 8586 := (11 + (((11 × (1 + 11)) - 1)¹⁺¹))/(1 + 1)
:= 2 + (((2 × 2 × 22 + 2)²) + 22²)
:= 3 × (3 × ((3 + 3) × ((3 + 3) × 3³ - 3)))
:= (4 - 4/4)⁴ × ((444 - 4)/4 - 4)
:= 5 + ((55 × 55 + 5555) + 5/5)
:= 6 + (66 × (((6 + 6)/6)⁶ + 66))
:= 77/7 + (7 × (7 × (7 × (7 + 7) + 77)))
:= (8/8 + 8) × ((888 + ((8 + 8)/8)) + 8 × 8)
:= 9 × (9 × (99 + 9) - (9 + 9))
- 8587 := 1 + ((11 + (((11 × (1 + 11)) - 1)¹⁺¹))/(1 + 1))
:= 2 + (((2 × (2 × 22 + 2))²) + (22/2)²)
:= (3 × 3 + 3)³ + (((3 × (3 + 3)) + 3/3)³)
:= 44 + (((4 + 4) × (4 × 4⁴ + 44)) - 4/4)
:= ((5 × 5 + 5/5) + 5) × (5 × 55 + ((5 + 5)/5))
:= 6 + ((66 × (((6 + 6)/6)⁶ + 66)) + 6/6)
:= 7 + ((7/7 + 77) × (777 - 7/7))
:= 8 × (8 + 8) + (88 × (88 + 8) + (88/8))
:= 9/9 + 9 × (9 × (99 + 9) - 9 - 9)
- 8588 := 1 + (1 + ((11 + (((11 × (1 + 11)) - 1)¹⁺¹))/(1 + 1)))
:= (222 + 2 + 2) × ((2 + 2 + 2)² + 2)
:= ((3/3 + 3 + 3) × (33/3)³) - 3³⁺³
:= 44 + ((4 + 4) × (4 × 4⁴ + 44))
:= (5⁵ + 5)/(5 + 5) + (5 × ((55 × (5 × 5 + 5)) + 5))
:= 6 × 66 + (((6 + 6)/6)^{6/6+6+6})
:= (77 - 7/7) × (777 + 7 + 7)/7
:= 8 + (((88 + 8)/8) × (88/8 + 8 × 88))
:= (9 + 9)/9 + 9 × (9 × (99 + 9) - 9 - 9)
- 8589 := ((11 + 11)¹⁺¹⁺¹) - (11 + (1 + 1)¹¹)
:= 2 + (((2 × (2 × 22 + 2))²) + (22/2)²) + 2)
:= 3 + (3 × (3 × ((3 + 3) × ((3 + 3) × 3³ - 3))))
:= 44 + (((4 + 4) × (4 × 4⁴ + 44)) + 4/4)
:= 5 + (((5555 - 5/5) + 55 × 55) + 5)
:= (6/6 + 6) × (((66/6) × 666/6) + 6)
:= 7 + ((7 × (7 × (7 × (7 + 7) + 77))) + 7)
:= (8 - 8/8) × (8 × (8 × 8 + 88) + (88/8))
:= 9 + ((99/9) × (9 × 99 - 999/9))
- 8590 := (11 × (11 × (((1 + 11)¹⁺¹/(1 + 1)) - 1))) - 1
:= (22 - 2)² + ((2^{22/2+2}) - 2)
:= 3 + (((3 × (3 + 3)) + 3/3)³) + (3 × 3 + 3)³
:= 4 + ((4 - 4/4)⁴ × ((444 - 4)/4 - 4))
:= 5 + ((55 × 55 + 5555) + 5)
:= 6 + (((6 + 6)/6) × (66 × 66 - ((6 + 6)/6)⁶))
:= 7 + (((7 × (7 × (7 × (7 + 7) + 77))) + 7/7) + 7)
:= 8 × 8 + ((8/8 - 88) × ((8 - 88)/8 - 88))
:= 9 × 999 + (999/9 - ((9 + 9)/9)⁹)
- 8591 := 11 × (11 × (((1 + 11)¹⁺¹/(1 + 1)) - 1))
:= (22 - 2)² + ((2^{22/2+2}) - 2/2)
:= 33/3 + ((3³ - 3/3) × (333 - 3))
:= (4⁴ × (4 × (4 + 4) + 4)) - (4/4 + 4)⁴
:= 55/5 × ((5⁵ - 5/5)/(5 - 5/5))
:= 66/6 × (66 × (6 + 6) - (66/6))
:= 77/7 × ((777 - 7) + (77/7))
:= 88/8 × ((8 × 88 - (88/8)) + 88)
:= 99/9 × (((9 - 999)/9) + 9 × 99)
- 8592 := 1 + (11 × (11 × (((1 + 11)¹⁺¹/(1 + 1)) - 1)))
:= (22 - 2)² + (2^{22/2+2})
:= 3 + ((3 × (3 × ((3 + 3) × ((3 + 3) × 3³ - 3)))) + 3)
:= 4 × (((4 + 4) × ((4⁴ + 4 + 4) + 4)) + 4)
:= 5 + (((5 × 5 + 5/5) + 5) × (5 × 55 + ((5 + 5)/5)))
:= (666 × (6/6 + 6 + 6)) - 66
:= 7 + ((77/7 × (777 - 7/7)) + 7 × 7)
:= 8 + ((88 × (88 + 8) + 8 × (8 + 8)) + 8)
:= 9 + (9 × (9 × (99 + 9) - 9 - 9) - ((9 + 9 + 9)/9))

$$\begin{aligned}
\blacktriangleright 8593 &:= 1 + (1 + (11 \times (11 \times ((1 + 11)^{1+1} / (1 + 1)) - 1))) \\
&:= 2/2 + ((2^{22/2+2}) + (22 - 2)^2) \\
&:= 3 + (((3 \times (3 + 3)) + 3/3)^3 + (3 \times 3 + 3)^3) + 3 \\
&:= 4/4 + ((4 \times ((4 + 4) \times (4^4 + 4) + 4)) + 4^4) \\
&:= 5^5 + (5555 - (((5 + 5)/5)^5 + 55)) \\
&:= (6/6 + 6 + 6) \times ((666 - 6) + 6/6) \\
&:= 7 + ((7 \times (7 \times (7 \times (7 + 7) + 77))) + (77/7)) \\
&:= (8 \times (8 \times (8 \times (8 + 8) + 8))) - 888/8 \\
&:= 9 + (9 \times (9 \times (99 + 9) - 9 - 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8594 &:= (1 + 1) \times (1 + ((1 + 1) \times (111 + ((1 + 1)^{11} - 11)))) \\
&:= 2 + ((2^{22/2+2}) + (22 - 2)^2) \\
&:= 3 \times 33 \times (3 + 3) + ((33/3 + 3 \times 3)^3) \\
&:= 4 + (((4 - 4/4)^4 \times ((444 - 4)/4 - 4)) + 4) \\
&:= 5 \times 5 + ((5555 - 555/5) + 5^5) \\
&:= 6 + (((6 + 6)/6)^{6/6+6+6} + 6 \times 66) \\
&:= 7 + (((7/7 + 77) \times (777 - 7)/7) + 7) \\
&:= ((8 - 888)/8) + (8 \times (8 \times (8 \times (8 + 8) + 8))) \\
&:= 9 + (9 \times (9 \times (99 + 9) - 9 - 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8595 &:= 1 + ((1 + 1) \times (1 + ((1 + 1) \times (111 + ((1 + 1)^{11} - 11)))) \\
&:= 2 + (((2^{22/2+2}) + (22 - 2)^2) + 2/2) \\
&:= 3 \times ((3 \times ((3 + 3) \times ((3 + 3) \times 3^3 - 3))) + 3) \\
&:= (44 + 4/4) \times (4^4 - (4^4 + 4)/4) \\
&:= 5^5 + ((5 \times (55 \times (5 \times 5 - 5) - 5)) - 5) \\
&:= 66 \times (66 + 66) - (666/6 + 6) \\
&:= 7 \times 7 + (77 \times 777/7 - 7/7) \\
&:= 8 + ((88 \times (88 + 8) + 8 \times (8 + 8)) + (88/8)) \\
&:= 9 + 9 \times (9 \times (99 + 9) - 9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8596 &:= (1 + 1) \times ((1 + 1) \times (1 + (111 + ((1 + 1)^{11} - 11)))) \\
&:= 2 + (((2^{22/2+2}) + (22 - 2)^2) + 2) \\
&:= (3^3 + 3/3) \times ((3 \times (3 \times 33 + 3)) + 3/3) \\
&:= 4 \times (((4 - 4/4) + 4)^4 - 4^4) + 4 \\
&:= (5/5 + 5)^5 + (55 \times (5 + 5 + 5) - 5) \\
&:= (6/6 + 6) \times (((66 \times 666/6 + 6)/6) + 6) \\
&:= 7 \times 7 + 77 \times 777/7 \\
&:= 8 + (((88 + 8)/8) \times (88/8 + 8 \times 88)) + 8 \\
&:= 9 + (9 \times (9 \times (99 + 9) - 9 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8597 &:= 11 + ((11 + (((11 \times (1 + 11)) - 1)^{1+1}) / (1 + 1)) \\
&:= 22 + (((2 \times (2 \times 22 + 2))^2) + 222/2) \\
&:= 3 + (((33/3 + 3 \times 3)^3) + 3 \times 33 \times (3 + 3)) \\
&:= 4/4 + (4 \times (((4 - 4/4) + 4)^4 - 4^4) + 4) \\
&:= 5/5 + ((55 \times (5 + 5 + 5) - 5) + (5/5 + 5)^5) \\
&:= 6 + ((66/6) \times (66 \times (6 + 6) - (66/6))) \\
&:= 7/7 + (77 \times 777/7 + 7 \times 7) \\
&:= ((88 - 8/8) \times (88/8 + 88)) - 8 - 8 \\
&:= 99/9 + 9 \times (9 \times (99 + 9) - 9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8598 &:= ((11 + 11)^{1+1+1}) - (1 + (1 + (1 + 1)^{11})) \\
&:= (22^{22/2+2}) - (2^{22/2} + 2) \\
&:= (3 + 3) \times (((33/3)^3 + 3 \times 33) + 3) \\
&:= (4 + 4)/4 + (4 \times (((4 - 4/4) + 4)^4 - 4^4) + 4) \\
&:= 5^5 + ((5 \times (55 \times (5 \times 5 - 5) - 5)) - ((5 + 5)/5)) \\
&:= 6 + ((666 \times (6/6 + 6 + 6)) - 66) \\
&:= 7 + (77/7 \times ((777 - 7) + (77/7))) \\
&:= 8 \times 8 + ((88 \times (88 + 8) - ((8 + 8)/8)) + 88) \\
&:= (99 + 9)/9 + 9 \times (9 \times (99 + 9) - 9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8599 &:= ((11 + 11)^{1+1+1}) - (1 + (1 + 1)^{11}) \\
&:= (22^{22/2+2}) - (2^{22/2} + 2/2) \\
&:= ((3^3 - 3/3) \times (333 - 3/3)) - 33 \\
&:= 4 + ((44 + 4/4) \times (4^4 - (4^4 + 4)/4)) \\
&:= 5^5 + ((5 \times (55 \times (5 \times 5 - 5) - 5)) - 5/5) \\
&:= 6 + ((6/6 + 6 + 6) \times ((666 - 6) + 6/6)) \\
&:= (77/7 \times ((777 - 7/7) + 7)) - (7 + 7) \\
&:= 8 \times 8 + ((88 \times (88 + 8) - 8/8) + 88) \\
&:= (9 \times (9 - 99)) + ((99 - ((9 + 9)/9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8600 &:= ((11 + 11)^{1+1+1}) - (1 + 1)^{11} \\
&:= (22^{22/2+2}) - 2^{22/2} \\
&:= ((3/3 - 3) + 3^3) \times (333 + 33/3) \\
&:= 4 + (4 \times (((4 - 4/4) + 4)^4 - 4^4) + 4) \\
&:= 5 \times (5^5 - (5 \times (5 \times 55 + 5) + 5)) \\
&:= ((6 + 6)/6 + 6) \times ((6666/6) - 6 \times 6) \\
&:= (77/7 + 7 + 7) \times (7 \times 7 \times 7 + 7/7) \\
&:= 8 \times 8 + (88 \times (88 + 8) + 88) \\
&:= 9 \times 9 \times 9 + 9 + (((9 + 9)/9)^{99/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8601 &:= 1 + (((11 + 11)^{1+1+1}) - (1 + 1)^{11}) \\
&:= 2/2 + (((22^{22/2+2}) - 2^{22/2}) \\
&:= 33 + ((3 \times 3^3 + 3) \times (3 \times 33 + 3)) \\
&:= 4^4 \times (4 + 4) + (((4 - 4/4)^{4+4}) - (4 + 4)) \\
&:= (5/5 + 5)^5 + 55 \times (5 + 5 + 5) \\
&:= 66 \times (66 + 66) - 666/6 \\
&:= ((7/7 + 7) \times (77 \times (7 + 7) - ((7 + 7)/7))) - 7 \\
&:= 8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) - 888/8) \\
&:= (99 \times (99 - (99/9))) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8602 &:= 1 + (1 + (((11 + 11)^{1+1+1}) - (1 + 1)^{11})) \\
&:= 2 + ((22^{22/2+2}) - 2^{22/2}) \\
&:= (3/3 + 33) \times ((3 \times (3 \times 3^3 + 3)) + 3/3) \\
&:= ((4/4 - 4) + 4^4) \times ((4 - 44)/4 + 44) \\
&:= 5/5 + (55 \times (5 + 5 + 5) + (5/5 + 5)^5) \\
&:= 66/6 \times (((6 - 66)/6) + 66 \times (6 + 6)) \\
&:= 77/7 \times ((777 - ((7 + 7)/7)) + 7) \\
&:= (8/8 + 8 + 8) \times (((8 + 8)/8) - 8) + 8 \times 8 \times 8 \\
&:= 99/9 \times (9 \times 99 - (9/9 + 99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8603 &:= (1 + (111 \times (11 + (1 + 11)^{1+1}))) / (1 + 1) \\
&:= 2 + (((22^{22/2+2}) - 2^{22/2}) + 2/2) \\
&:= 3^3 + (((33/3 + 3)^3 + (3 \times (3 + 3))^3) \\
&:= 444 + (((4 + 4) \times (4 \times 4^4 - 4)) - 4/4) \\
&:= (((5 + 5)/5)^5 \times (5 \times 55 - (5/5 + 5))) - 5 \\
&:= (6/6 + 6) \times (6 \times 6 \times 6 \times 6 - (66 + 6/6)) \\
&:= 7 + (77 \times 777/7 + 7 \times 7) \\
&:= (8 - 8/8) \times (88/8 \times 888/8 + 8) \\
&:= (((9 + 9)/9)^9) + (9 \times (9 \times 99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8604 &:= (1 + 11) \times ((1 + 1)^{11} - 11^{1+1+1}) \\
&:= (2^{2+2} + 2) \times (22^2 - (2 + 2 + 2)) \\
&:= 3 \times ((33 \times (3 \times 3^3 + 3 + 3)) - 3) \\
&:= 444 + ((4 + 4) \times (4 \times 4^4 - 4)) \\
&:= (5 - 5/5) \times (((5 - 5^5)/5) + 5 \times 555) \\
&:= 6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 66) \\
&:= 7 + ((77 \times 777/7 + 7/7) + 7 \times 7) \\
&:= (8/8 + 8) \times ((88 \times 88 - (88 + 8))/8) \\
&:= 9 + (9 \times (9 \times (99 + 9) - 9 - 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8605 &:= 1 + ((1 + 11) \times ((1 + 1)^{11} - 11^{1+1+1})) \\
&:= (((2 \times (2 \times 22 + 2)) + 2/2)^2) - (2 \times 22) \\
&:= 3/3 + (3 \times ((33 \times (3 \times 3^3 + 3 + 3)) - 3)) \\
&:= 4^4 \times (4 + 4) + (((4 - 4/4)^{4+4}) - 4) \\
&:= 5 + ((5 \times (55 \times (5 \times 5 - 5) - 5)) + 5^5) \\
&:= 6/6 + (6 \times (6 \times (6 \times 6 \times 6 + 6 + 6) + 66)) \\
&:= 7 + ((77/7 \times ((777 - 7) + (77/7))) + 7) \\
&:= ((88 - 8/8) \times (88/8 + 88)) - 8 \\
&:= ((99 - 9/9)^{(9+9)/9}) - 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8606 &:= 1 + (1 + ((1 + 11) \times ((1 + 1)^{11} - 11^{1+1+1}))) \\
&:= 2 + ((2^{2+2} + 2) \times (22^2 - (2 + 2 + 2))) \\
&:= (3^3 - 3/3) \times ((333 - 3) + 3/3) \\
&:= 4 + (((4/4 - 4) + 4^4) \times ((4 - 44)/4 + 44)) \\
&:= 5 + (55 \times (5 + 5 + 5) + (5/5 + 5)^5) \\
&:= (6/6 + 6 + 6) \times (((6 + 6)/6 - 6) + 666) \\
&:= (77/7 \times ((777 - 7/7) + 7)) - 7 \\
&:= 8/8 + (((88 - 8/8) \times (88/8 + 88)) - 8) \\
&:= 9 + (9 \times (9 \times (99 + 9) - 9 - 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8607 &:= (1 + 1)^{11} + (1 + 1 + 1)^{(1+1)^{1+1+1}} - 1 - 1 \\
&:= 2^{22/2} + ((2/2 + 2)^{2 \times (2+2)} - 2) \\
&:= 3 + 3 \times (33 \times (3 \times 3^3 + 3 + 3) - 3) \\
&:= 4^4 + (((4 + 4) \times (4 \times (4^4 + 4) + 4)) - 4/4) \\
&:= ((5 + 5)/5 + 55) \times (5 \times (5 \times 5 + 5) + 5/5) \\
&:= 6 + (66 \times (66 + 66) - 666/6) \\
&:= 7 \times 7 + (77/7 \times (777 + 7/7)) \\
&:= 8 \times 8 + (((88 + 8) \times (8/8 + 88)) - 8/8) \\
&:= ((99 + 9)/9 \times (9 \times 9 \times 9 - (99/9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8608 &:= (1+1)^{11} + (1+1+1)^{(1+1)^{1+1+1}} - 1 \\
&:= 2 \times (2 \times ((2 \times 22 + 2)^2 + (2+2+2)^2)) \\
&:= (33 - 3/3) \times (((3^3+3) - 3)/3 + 3^3) \\
&:= 4 \times ((44 \times (44+4) - 4) + 44) \\
&:= ((5+5)/5)^5 \times (5 \times 55 - (5/5+5)) \\
&:= 6 + (66 \times (66+66) + ((6-666)/6)) \\
&:= (7/7+7) \times (77 \times (7+7) - ((7+7)/7)) \\
&:= 8 \times 8 + ((88+8) \times (8/8+88)) \\
&:= (9-9/9) \times (((99/9) \times (99 - ((9+9)/9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8609 &:= (1+1)^{11} + (1+1+1)^{(1+1)^{1+1+1}} \\
&:= 2^{22/2} + (2/2+2)^{2 \times (2+2)} \\
&:= 3 + ((3^3 - 3/3) \times ((333 - 3) + 3/3)) \\
&:= 4^4 \times (4+4) + ((4-4/4)^{4+4}) \\
&:= 5 + ((5-5/5) \times (((5-5^5)/5) + 5 \times 555)) \\
&:= ((6/6+6) \times (6 \times 6 \times 6 \times 6 - 66)) - 6/6 \\
&:= ((7/7+77) \times 777/7) - 7 \times 7 \\
&:= (88/8-8)^8 + (8 \times (8+8) \times (8+8)) \\
&:= 9 \times 9 \times 9 \times 9 + (((9+9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8610 &:= (1+1)^{11} + (1+1+1)^{(1+1)^{1+1+1}} + 1 \\
&:= ((22/2+2) + 2) \times (((22+2)^2) - 2) \\
&:= (3 \times (33 \times (3 \times 3^3 + 3 + 3))) - 3 \\
&:= 4/4 + (((4-4/4)^{4+4}) + 4^4 \times (4+4)) \\
&:= (5/5+5) \times ((5 \times 5 \times 55 + 55) + 5) \\
&:= (6/6+6) \times (6 \times 6 \times 6 \times 6 - 66) \\
&:= (7+7) \times ((7 \times 77 - 7/7) + 77) \\
&:= (8-8/8+8) \times (8 \times (8 \times 8 + 8) - (8+8)/8) \\
&:= (9/9+9) \times (9 \times (99+9) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8611 &:= 11 + (((11+11)^{1+1+1}) - (1+1)^{11}) \\
&:= 2 + ((2/2+2)^{2 \times (2+2)} + 2^{22/2}) \\
&:= 3/3 + ((3 \times (33 \times (3 \times 3^3 + 3 + 3))) - 3) \\
&:= 44444/4 - (4 \times (4/4+4)^4) \\
&:= 5 + ((55 \times (5+5+5) + (5/5+5)^5) + 5) \\
&:= 6/6 + ((6/6+6) \times (6 \times 6 \times 6 \times 6 - 66)) \\
&:= 7/7 + ((7+7) \times ((7 \times 77 - 7/7) + 77)) \\
&:= 8 \times 8 + (888/8 \times (88 - 88/8)) \\
&:= (9 \times 9 - ((9+9)/9)) \times (9/9 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8612 &:= (11 \times (((1+(1+1+1)^{1+1+1})^{1+1}) - 1)) - 1 \\
&:= 2 + (((22/2+2) + 2) \times (((22+2)^2) - 2)) \\
&:= (3 \times (33 \times (3 \times 3^3 + 3 + 3))) - 3/3 \\
&:= 4 + (((4+4) \times (4 \times (4^4+4) + 4)) + 4^4) \\
&:= 5 + (((5+5)/5 + 55) \times (5 \times (5 \times 5 + 5) + 5/5)) \\
&:= 6 + ((6/6+6+6) \times (((6+6)/6 - 6) + 666)) \\
&:= ((7+7)/7) \times (((77 \times (7 \times 7 + 7)) - 7) + 7/7) \\
&:= 8 \times 8 \times 8 + (((8+8)/8 + 88)^{(8+8)/8}) \\
&:= (((9+9)/9)^9) + 9 \times (9 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8613 &:= 11 \times (((1+(1+1+1)^{1+1+1})^{1+1}) - 1) \\
&:= 22/2 \times (((22+2+2+2)^2) - 2/2) \\
&:= 3 \times (33 \times (3 \times 3^3 + 3 + 3)) \\
&:= 4 + (((4-4/4)^{4+4}) + 4^4 \times (4+4)) \\
&:= 5 + (((5+5)/5)^5 \times (5 \times 55 - (5/5+5))) \\
&:= 66 + (666/6 \times (66/6 + 66)) \\
&:= 77/7 \times ((777 - 7/7) + 7) \\
&:= (88 - 8/8) \times (88/8 + 88) \\
&:= 99 \times (99 - (99+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8614 &:= 1 + (11 \times (((1+(1+1+1)^{1+1+1})^{1+1}) - 1)) \\
&:= (((2 \times (2 \times 22 + 2)) + 2)^2) - 222 \\
&:= 3/3 + (3 \times (33 \times (3 \times 3^3 + 3 + 3))) \\
&:= (4-44)/4 + (44 \times ((4 \times (44+4) + 4)) \\
&:= 5^5 + (5555 - (55/5 + 55)) \\
&:= (66 + 6/6 + 6) \times ((666 + 6)/6 + 6) \\
&:= 7 + ((77/7 \times (777 + 7/7)) + 7 \times 7) \\
&:= 8/8 + ((88 - 8/8) \times (88/8 + 88)) \\
&:= 9/9 + (99 \times (99 - (99+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8615 &:= ((1+11) \times ((11-1-1)^{1+1+1} - 11)) - 1 \\
&:= 2 + (22/2 \times (((22+2+2+2)^2) - 2/2)) \\
&:= 3 + ((3 \times (33 \times (3 \times 3^3 + 3 + 3))) - 3/3) \\
&:= (44 \times ((4 \times (44+4) + 4)) - (4/4+4+4)) \\
&:= 5 \times (((55+5)/5)^{5-(5+5)/5}) - 5) \\
&:= 6 + (((6/6+6) \times (6 \times 6 \times 6 \times 6 - 66)) - 6/6) \\
&:= 7 + ((7/7+7) \times (77 \times (7+7) - ((7+7)/7))) \\
&:= (8 \times (8 \times (8 \times (8+8) + 8))) - (8/8+88) \\
&:= ((99-9/9) \times (99 - (99/9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8616 &:= (1+11) \times ((11-1-1)^{1+1+1} - 11) \\
&:= 2 \times (22 \times 222 - ((22+2)^2)) \\
&:= 3 + (3 \times (33 \times (3 \times 3^3 + 3 + 3))) \\
&:= (44 \times ((4 \times (44+4) + 4)) - 4 - 4) \\
&:= (5/5+5)^5 + ((5+5+5) \times (55+5/5)) \\
&:= 6 + ((6/6+6) \times (6 \times 6 \times 6 \times 6 - 66)) \\
&:= (7/7+7) \times (77 \times (7+7) - 7/7) \\
&:= (8 \times (8 \times (8 \times (8+8) + 8))) - 88 \\
&:= (99+9)/9 \times (9 \times 9 \times 9 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8617 &:= 1 + ((1+11) \times ((11-1-1)^{1+1+1} - 11)) \\
&:= 2/2 + (2 \times (22 \times 222 - ((22+2)^2))) \\
&:= 3 + ((3 \times (33 \times (3 \times 3^3 + 3 + 3))) + 3/3) \\
&:= 4 + (((4-4/4)^{4+4}) + 4^4 \times (4+4) + 4) \\
&:= 5^5 + ((5-5/5) \times (5 \times 5 \times 55 - ((5+5)/5))) \\
&:= (6/6+6) \times (((6 \times 6 - 6/6)^{(6+6)/6}) + 6) \\
&:= (77 \times ((7 \times (7+7) + 7) + 7)) - 7 \\
&:= 8/8 + ((8 \times (8 \times (8 \times (8+8) + 8))) - 88) \\
&:= 9/9 + ((99+9)/9 \times (9 \times 9 \times 9 - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8618 &:= 1 + (1 + ((1+11) \times ((11-1-1)^{1+1+1} - 11))) \\
&:= (2 \times ((22 \times ((2^{2+2} - 2)^2)) - 2)) - 2 \\
&:= 3 + (((3 \times (33 \times (3 \times 3^3 + 3 + 3))) - 3/3) + 3) \\
&:= (44 \times ((4 \times (44+4) + 4)) - ((4+4)/4 + 4)) \\
&:= 5 + (((5+5)/5)^5 \times (5 \times 55 - (5/5+5))) + 5) \\
&:= ((66/6+66) \times (666+6)/6) - 6 \\
&:= 7/7 + ((77 \times ((7 \times (7+7) + 7) + 7)) - 7) \\
&:= (8+8)/8 + ((8 \times (8 \times (8 \times (8+8) + 8))) - 88) \\
&:= 9 + (((9+9)/9)^{99/9}) + 9 \times 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8619 &:= (1+1+1) \times ((1+1+11) \times ((1+1) \times 111 - 1)) \\
&:= (222 - 2/2) \times (2 \times (22 - 2) - 2/2) \\
&:= 3 + ((3 \times (33 \times (3 \times 3^3 + 3 + 3))) + 3) \\
&:= (44 \times ((4 \times (44+4) + 4)) - 4/4 - 4) \\
&:= 5^5 + (5555 - ((55+5/5) + 5)) \\
&:= (6/6+6+6) \times (666 - (6 \times 6/(6+6))) \\
&:= (7+7)/7 + ((77 \times ((7 \times (7+7) + 7) + 7)) - 7) \\
&:= 8 + ((888/8 \times (88 - 88/8)) + 8 \times 8) \\
&:= 9 \times 9 \times (99+9) - ((999/9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8620 &:= (11-1) \times (((1+11)^{1+1+1})/(1+1) - (1+1)) \\
&:= 2 \times (22 \times ((2^{2+2} - 2)^2)) - 2) \\
&:= (3/3+3) \times ((3 \times 3^{3+3} - 33) + 3/3) \\
&:= (44 \times ((4 \times (44+4) + 4)) - 4) \\
&:= 5^5 + (5555 - (55+5)) \\
&:= 6 + ((66+6/6+6) \times ((666+6)/6+6)) \\
&:= 7 + (77/7 \times ((777 - 7/7) + 7)) \\
&:= 888 + (88 \times 88 - ((88+8)/8)) \\
&:= (99/9+9) \times (((9+9)/9)^9) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8621 &:= (111/(1+1+1)) \times (11 + (1+1) \times 111) \\
&:= 2/2 + (2 \times (22 \times ((2^{2+2} - 2)^2)) - 2)) \\
&:= (33/3)^3 + (3 \times (3 \times (3^3 \times (3^3 + 3)))) \\
&:= 4/4 + ((44 \times ((4 \times (44+4) + 4)) - 4) \\
&:= 5^5 + ((5555 - (55+5)) + 5/5) \\
&:= (6 \times 6 + 6/6) \times ((6 \times 6 \times 6 + 66/6) + 6) \\
&:= (77 \times ((7 \times (7+7) + 7) + 7)) - (7+7+7)/7) \\
&:= 8 + ((88 - 8/8) \times (88/8 + 88)) \\
&:= 9 + (9 \times (9 \times 99 + 9) + ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8622 &:= (11 \times ((1+(1+1+1)^{1+1+1})^{1+1}) - 1) - 1 \\
&:= (2 \times (22 \times ((2^{2+2} - 2)^2))) - 2 \\
&:= 3 \times ((33 \times (3 \times 3^3 + 3 + 3)) + 3) \\
&:= (44 \times ((4 \times (44+4) + 4)) - (4+4)/4) \\
&:= 5^5 + ((5555 - (55+5)) + ((5+5)/5)) \\
&:= (666 \times (6/6+6+6)) - 6 \times 6 \\
&:= ((7+7)/7) \times ((77 \times (7 \times 7 + 7)) - 7/7) \\
&:= 888 + (88 \times 88 + (8 - 88)/8) \\
&:= 9 + (99 \times (99 - (99+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8623 &:= (11 \times ((1 + (1 + 1 + 1)^{1+1+1})^{1+1})) - 1 \\
&:= (2 \times (22 \times ((2^{2+2} - 2)^2))) - 2/2 \\
&:= 3/3 + (3 \times ((33 \times (3 \times 3^3 + 3 + 3)) + 3)) \\
&:= (44 \times ((4 \times (44 + 4)) + 4)) - 4/4 \\
&:= 5^5 + (5555 - ((5 + 5)/5 + 55)) \\
&:= 6/6 + ((666 \times (6/6 + 6 + 6)) - 6 \times 6) \\
&:= (77 \times ((7 \times (7 + 7) + 7) + 7)) - 7/7 \\
&:= 888 + (88 \times 88 - (8/8 + 8)) \\
&:= (((9 - 9/9) + 9) \times ((9 + 9)/9)^9) - 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8624 &:= 11 \times ((1 + (1 + 1 + 1)^{1+1+1})^{1+1}) \\
&:= 2 \times (22 \times ((2^{2+2} - 2)^2)) \\
&:= 33/3 \times ((3^3 + 3/3)^{3-3/3}) \\
&:= 44 \times ((4 \times (44 + 4)) + 4) \\
&:= 5^5 + (5555 - (55 + 5/5)) \\
&:= (66/6 + 66) \times (666 + 6)/6 \\
&:= 77 \times ((7 \times (7 + 7) + 7) + 7) \\
&:= 88 \times (((8 + 8)/8 + 88) + 8) \\
&:= (99 - 9/9) \times (99 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8625 &:= 1 + (11 \times ((1 + (1 + 1 + 1)^{1+1+1})^{1+1})) \\
&:= 2/2 + (2 \times (22 \times ((2^{2+2} - 2)^2))) \\
&:= (3 - 3/3 + 3) \times ((3 \times 3 + 3)^3 - 3) \\
&:= 4/4 + (44 \times ((4 \times (44 + 4)) + 4)) \\
&:= 5 \times (5^5 - 5 \times (5 \times 55 + 5)) \\
&:= 6 + ((6/6 + 6 + 6) \times (666 - (6 \times 6/(6 + 6)))) \\
&:= 7/7 + (77 \times ((7 \times (7 + 7) + 7) + 7)) \\
&:= 8/8 + ((88 \times 88 - 8) + 888) \\
&:= 9 + ((99 + 9)/9 \times (9 \times 9 \times 9 - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8626 &:= 1 + (1 + (11 \times ((1 + (1 + 1 + 1)^{1+1+1})^{1+1}))) \\
&:= 2 + (2 \times (22 \times ((2^{2+2} - 2)^2))) \\
&:= 3/3 + ((3 - 3/3 + 3) \times ((3 \times 3 + 3)^3 - 3)) \\
&:= (4 + 4)/4 + (44 \times ((4 \times (44 + 4)) + 4)) \\
&:= 5^5 + ((5 \times 55 \times (5 \times 5 - 5)) + 5/5) \\
&:= ((6 + 6)/6 + 6 \times 6) \times (6 \times 6 \times 6 + 66/6) \\
&:= (7 + 7)/7 + (77 \times ((7 \times (7 + 7) + 7) + 7)) \\
&:= 888 + ((88 \times 88 - 8) + ((8 + 8)/8)) \\
&:= 9 \times (9 + 9) + (((99/9) + 9 \times 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8627 &:= 1 + (1 + (1 + (11 \times ((1 + (1 + 1 + 1)^{1+1+1})^{1+1})))) \\
&:= (((2 \times (2 \times 22 + 2)) + 2/2)^2) - 22 \\
&:= 3 + (33/3 \times ((3^3 + 3/3)^{3-3/3})) \\
&:= 4 + ((44 \times ((4 \times (44 + 4)) + 4)) - 4/4) \\
&:= 5^5 + ((5 \times 55 \times (5 \times 5 - 5)) + ((5 + 5)/5)) \\
&:= (6 + 6) \times (6 + 6) \times (66 - 6) - (6/6 + 6 + 6) \\
&:= 7 + ((77/7 \times ((777 - 7/7) + 7)) + 7) \\
&:= 88/8 + ((8 \times (8 \times (8 + 8) + 8)) - 88) \\
&:= 9 \times 999 + ((9 - 9 \times 9 \times 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8628 &:= (1 + 1) \times ((1 + 1) \times (111 + ((1 + 1)^{11} - (1 + 1)))) \\
&:= 2 \times (22 \times ((2^{2+2} - 2)^2)) + 2 \\
&:= 3 + ((3 - 3/3 + 3) \times ((3 \times 3 + 3)^3 - 3)) \\
&:= 4 + (44 \times ((4 \times (44 + 4)) + 4)) \\
&:= 5 + ((5555 - ((5 + 5)/5 + 55)) + 5^5) \\
&:= (6 + 6) \times ((6 + 6) \times (66 - 6) - 6/6) \\
&:= (77/7 \times ((777 + 7/7) + 7)) - 7 \\
&:= 888 + (88 \times 88 - 8 \times 8/(8 + 8)) \\
&:= (99 + 9)/9 \times (9 \times 9 \times 9 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8629 &:= ((11 - 1) \times (((1 + 11)^{1+1+1})/(1 + 1))) - 11 \\
&:= 2 + (((2 \times (2 \times 22 + 2)) + 2/2)^2) - 22 \\
&:= ((3^3 - 3/3) \times (333 - 3/3)) - 3 \\
&:= 4 + ((44 \times ((4 \times (44 + 4)) + 4)) + 4/4) \\
&:= 5 + ((5555 - (55 + 5/5)) + 5^5) \\
&:= (6 + 6) \times (6 + 6) \times (66 - 6) - 66/6 \\
&:= 7 + (((7 + 7)/7) \times ((77 \times (7 \times 7 + 7)) - 7/7)) \\
&:= (8 \times ((8 \times (8 \times (8 + 8) + 8)) - 8)) - 88/8 \\
&:= ((99 + 9) \times (9 \times 9 - 9/9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8630 &:= (11 - 1) \times (((1 + 11)^{1+1+1})/(1 + 1)) - 1 \\
&:= 2 + (2 \times (22 \times ((2^{2+2} - 2)^2)) + 2) \\
&:= (3 - 3/3 + 3) \times (((3 \times 3 + 3)^3 - 3) + 3/3) \\
&:= 4 + ((44 \times ((4 \times (44 + 4)) + 4)) + (4 + 4)/4) \\
&:= 5 + ((5 \times 55 \times (5 \times 5 - 5)) + 5^5) \\
&:= 6 + ((66/6 + 66) \times (666 + 6)/6) \\
&:= 7 + ((77 \times ((7 \times (7 + 7) + 7) + 7)) - 7/7) \\
&:= 888 + (88 \times 88 - ((8 + 8)/8)) \\
&:= 99 + (9 \times 9 \times 99 + ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8631 &:= 1 + ((11 - 1) \times (((1 + 11)^{1+1+1})/(1 + 1)) - 1) \\
&:= (22 - 2/2) \times ((22 - 2)^2 + 22/2) \\
&:= 3 \times (((3^3 + 3) \times (3 \times 33 - 3)) - 3) \\
&:= 4 + (((44 \times ((4 \times (44 + 4)) + 4)) - 4/4) + 4) \\
&:= 5 + (((5 \times 55 \times (5 \times 5 - 5)) + 5^5) + 5/5) \\
&:= (6/6 + 6) \times (((66/6) \times 666/6) + 6) + 6 \\
&:= 7 + (77 \times ((7 \times (7 + 7) + 7) + 7)) \\
&:= 888 + (88 \times 88 - 8/8) \\
&:= ((99 + 9) \times (9 \times 9 - 9/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8632 &:= (1 + 1) \times ((1 + 1) \times (111 + ((1 + 1)^{11} - 1))) \\
&:= 2 \times (2 \times (22 \times ((2 \times 22)^2 + 222)) \\
&:= (3^3 - 3/3) \times (333 - 3/3) \\
&:= 4 + ((44 \times ((4 \times (44 + 4)) + 4)) + 4) \\
&:= ((5 - (5 + 5)/5) + 5) \times ((5 - 5/5)^5 + 55) \\
&:= (6/6 + 6 + 6) \times (666 - ((6 + 6)/6)) \\
&:= (7/7 + 7) \times (77 \times (7 + 7) + 7/7) \\
&:= 888 + 88 \times 88 \\
&:= 9/9 + (((99 + 9) \times (9 \times 9 - 9/9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8633 &:= 1 + ((1 + 1) \times ((1 + 1) \times (111 + ((1 + 1)^{11} - 1)))) \\
&:= ((22 - 2/2)^2) + (2^{22/2+2}) \\
&:= 3/3 + ((3^3 - 3/3) \times (333 - 3/3)) \\
&:= 4 + (((44 \times ((4 \times (44 + 4)) + 4)) + 4/4) + 4) \\
&:= 5 \times 5 + (((5 + 5)/5)^5 \times (5 \times 55 - (5/5 + 5))) \\
&:= (6 + 6) \times (6 + 6) \times (66 - 6) - 6/6 - 6 \\
&:= 7 + ((77 \times ((7 \times (7 + 7) + 7) + 7)) + ((7 + 7)/7)) \\
&:= 8/8 + (88 \times 88 + 888) \\
&:= 9 + ((99 - 9/9) \times (99 - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8634 &:= (1 + 1) \times (((1 + 1) \times (111 + (1 + 1)^{11})) - 1) \\
&:= 2 + (2 \times (2 \times (2 \times (22)^2 + 222))) \\
&:= 3 + (3 \times ((3^3 + 3) \times (3 \times 33 - 3)) - 3) \\
&:= 444 + ((4 + 4)/4 \times ((4 + 4)^4 - 4/4)) \\
&:= (((5 + 5)/5)^5 \times (5 \times 55 - 5)) - (5/5 + 5) \\
&:= (6 + 6) \times (6 + 6) \times (66 - 6) - 6 \\
&:= 7 \times (7 + 7) + (77/7 \times (777 - 7/7)) \\
&:= 888 + (88 \times 88 + ((8 + 8)/8)) \\
&:= 9 + (((99 + 9)/9 \times (9 \times 9 \times 9 - (99/9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8635 &:= 11 \times (1 + ((1 + (1 + 1 + 1)^{1+1+1})^{1+1})) \\
&:= 2 + (((22 - 2/2)^2) + (2^{22/2+2})) \\
&:= 3 + ((3^3 - 3/3) \times (333 - 3/3)) \\
&:= 444 + (4 \times 4^4 \times (4 + 4)) - 4/4 \\
&:= 55 \times (((5 + 5)/5)^5 + 5 \times 5 \times 5) \\
&:= 6/6 + ((6 + 6) \times (6 + 6) \times (66 - 6) - 6) \\
&:= 77/7 \times ((777 + 7/7) + 7) \\
&:= 88 + (888/8 \times (88 - 88/8)) \\
&:= 9 \times 99 + ((99 - (99/9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8636 &:= (1 + 1) \times ((1 + 1) \times (111 + (1 + 1)^{11})) \\
&:= 2 \times (2^{2 \times (2+2+2)} + 222) \\
&:= (3/3 + 33) \times ((3^{3+3} + 33)/3) \\
&:= 444 + (4 \times 4^4 \times (4 + 4)) \\
&:= 5^5 + ((5 \times 55 \times (5 \times 5 - 5)) + (55/5)) \\
&:= (6 + 6)/6 + ((6 + 6) \times (6 + 6) \times (66 - 6) - 6) \\
&:= 7/7 + (77/7 \times ((777 + 7/7) + 7)) \\
&:= 888 + (88 \times 88 + 8 \times 8/(8 + 8)) \\
&:= 9 \times 9 \times (99 + 9) - ((999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8637 &:= 1 + ((1 + 1) \times ((1 + 1) \times (111 + (1 + 1)^{11}))) \\
&:= 2/2 + ((2^{22/2+2}) + 2 \times 222) \\
&:= (3 \times ((3^3 + 3) \times (3 \times 33 - 3))) - 3 \\
&:= 4/4 + ((4 \times 4^4 \times (4 + 4)) + 444) \\
&:= (5^5 - 5)/(5 + 5) + ((5 + 5 + 5) \times 555) \\
&:= (6 + 6) \times (6 + 6) \times (66 - 6) - 6 \times 6/(6 + 6) \\
&:= 7 + (((77 \times ((7 \times (7 + 7) + 7) + 7)) - 7/7) + 7) \\
&:= 8 + ((8 \times ((8 \times (8 \times (8 + 8) + 8)) - 8)) - (88/8)) \\
&:= 9 \times 9 \times (99 + 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8638 &:= (1+1) \times (1 + ((1+1) \times (111 + (1+1)^{11}))) \\
&:= 2 + (2^{22/2+2}) + 2 \times 222 \\
&:= 3 + (((3^3 - 3/3) \times (333 - 3/3)) + 3) \\
&:= ((44+4) \times (4 \times 44+4)) - (4+4)/4 \\
&:= (5^5 + 5)/(5+5) + ((5+5+5) \times 555) \\
&:= (6+6) \times (6+6) \times (66-6) - (6+6)/6 \\
&:= 7 + ((77 \times ((7 \times (7+7) + 7) + 7)) + 7) \\
&:= (8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) - (8+8)/8 \\
&:= ((9-999)/9) + 9 \times 9 \times (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8639 &:= ((11-1) \times (((1+11)^{1+1+1})/(1+1))) - 1 \\
&:= ((2^{2+2} + 2) \times (22^2 - (2+2))) - 2/2 \\
&:= (3 \times ((3^3 + 3) \times (3 \times 33 - 3))) - 3/3 \\
&:= ((44+4) \times (4 \times 44+4)) - 4/4 \\
&:= (((5+5)/5)^5 \times (5 \times 55 - 5)) - 5/5 \\
&:= (6+6) \times (6+6) \times (66-6) - 6/6 \\
&:= 7 + ((7/7+7) \times (77 \times (7+7) + 7/7)) \\
&:= (8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) - 8/8 \\
&:= ((99+9) \times (9 \times 9 - 9/9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8640 &:= (11-1) \times (((1+11)^{1+1+1})/(1+1)) \\
&:= (2^{2+2} + 2) \times (22^2 - (2+2)) \\
&:= 3 \times ((3^3 + 3) \times (3 \times 33 - 3)) \\
&:= (44+4) \times (4 \times 44+4) \\
&:= ((5+5)/5)^5 \times (5 \times 55 - 5) \\
&:= (6+6) \times (6+6) \times (66-6) \\
&:= (7/7+7) \times (77 \times (7+7) + ((7+7)/7)) \\
&:= 8 \times ((8 \times (8 \times (8+8) + 8)) - 8) \\
&:= (99+9) \times (9 \times 9 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8641 &:= 1 + ((11-1) \times (((1+11)^{1+1+1})/(1+1))) \\
&:= 2/2 + ((2^{2+2} + 2) \times (22^2 - (2+2))) \\
&:= 3/3 + (3 \times ((3^3 + 3) \times (3 \times 33 - 3))) \\
&:= 4/4 + ((44+4) \times (4 \times 44+4)) \\
&:= 5/5 + (((5+5)/5)^5 \times (5 \times 55 - 5)) \\
&:= 6/6 + (6+6) \times (6+6) \times (66-6) \\
&:= 7 + ((77/7 \times (777 - 7/7)) + 7 \times (7+7)) \\
&:= 8/8 + (8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) \\
&:= 9/9 + ((99+9) \times (9 \times 9 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8642 &:= 1 + (1 + ((11-1) \times (((1+11)^{1+1+1})/(1+1)))) \\
&:= 2 + ((2^{2+2} + 2) \times (22^2 - (2+2))) \\
&:= 3 + ((3 \times ((3^3 + 3) \times (3 \times 33 - 3))) - 3/3) \\
&:= (4+4)/4 + ((44+4) \times (4 \times 44+4)) \\
&:= (5+5)/5 + (((5+5)/5)^5 \times (5 \times 55 - 5)) \\
&:= (6+6)/6 + (6+6) \times (6+6) \times (66-6) \\
&:= 7 + (77/7 \times ((777+7/7) + 7)) \\
&:= (8+8)/8 + (8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) \\
&:= (9+9)/9 + ((99+9) \times (9 \times 9 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8643 &:= 1 + (1 + (1 + ((11-1) \times (((1+11)^{1+1+1})/(1+1)))))) \\
&:= ((2 \times 22) - 2/2) \times (((22-2)^2 + 2)/2) \\
&:= 3 + (3 \times ((3^3 + 3) \times (3 \times 33 - 3))) \\
&:= 4 + (((44+4) \times (4 \times 44+4)) - 4/4) \\
&:= 5^5 + (5555 - (((5+5)/5)^5 + 5)) \\
&:= (6 \times 6/(6+6)) + (6+6) \times (6+6) \times (66-6) \\
&:= 7 + ((77/7 \times ((777+7/7) + 7)) + 7/7) \\
&:= 888 + (88 \times 88 + (88/8)) \\
&:= ((9+9+9)/9) + ((99+9) \times (9 \times 9 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8644 &:= (1+1) \times ((1+1) \times (1 + (1 + (111 + (1+1)^{11})))) \\
&:= 2 \times ((2 \times (2^{22/2} + 2)) + 222) \\
&:= 3 + ((3 \times ((3^3 + 3) \times (3 \times 33 - 3))) + 3/3) \\
&:= 4 + ((44+4) \times (4 \times 44+4)) \\
&:= 5 + (((5+5)/5)^5 \times (5 \times 55 - 5)) - 5/5 \\
&:= 6 + ((6+6) \times (6+6) \times (66-6) - ((6+6)/6)) \\
&:= ((7/7+77) \times 777/7) - (7+7) \\
&:= 888 + (88 \times 88 + ((88+8)/8)) \\
&:= (99 \times (99+9)) - (((9+9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8645 &:= (1+1+11) \times ((11^{1+1+1} - 1)/(1+1)) \\
&:= (((2 \times (2 \times 22 + 2)) + 2/2)^2) - 2 - 2 \\
&:= (3 - 3/3 + 3) \times ((3 \times 3 + 3)^3 + 3/3) \\
&:= 4 + (((44+4) \times (4 \times 44+4)) + 4/4) \\
&:= 5 + (((5+5)/5)^5 \times (5 \times 55 - 5)) \\
&:= (6/6 + 6 + 6) \times (666 - 6/6) \\
&:= 7 \times (7+7) + 77 \times 777/7 \\
&:= (8-8/8) \times ((88/8+8) \times (8/8+8 \times 8)) \\
&:= 9 + (9 \times 9 \times (99+9) - ((999+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8646 &:= 1 + ((1+1+11) \times ((11^{1+1+1} - 1)/(1+1))) \\
&:= 2 \times ((2 \times 2222) - (22/2)^2) \\
&:= ((3 \times (3^3 + 3) + 3)^{3-3/3}) - 3 \\
&:= 4 + (((44+4) \times (4 \times 44+4)) + (4+4)/4) \\
&:= 5 + (((5+5)/5)^5 \times (5 \times 55 - 5)) + 5/5 \\
&:= 6 + (6+6) \times (6+6) \times (66-6) \\
&:= 77/7 \times (((7+7)/7) + 777) + 7 \\
&:= 8 + ((8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) - ((8+8)/8)) \\
&:= 9 + (9 \times 9 \times (99+9) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8647 &:= (((1+1)^{11-1} - 1)/11)^{1+1} - 1 - 1 \\
&:= (((2 \times (2 \times 22 + 2)) + 2/2)^2) - 2 \\
&:= (333 \times (3^3 - 3/3)) - 33/3 \\
&:= 4 + (((44+4) \times (4 \times 44+4)) - 4/4) + 4 \\
&:= 5 + (((5+5)/5)^5 \times (5 \times 55 - 5)) + ((5+5)/5) \\
&:= 6 + ((6+6) \times (6+6) \times (66-6) + 6/6) \\
&:= 7 + ((7/7+7) \times (77 \times (7+7) + ((7+7)/7))) \\
&:= 8 + ((8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) - 8/8) \\
&:= 9 \times 9 \times (99+9) - ((9+9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8648 &:= (((1+1)^{11-1} - 1)/11)^{1+1} - 1 \\
&:= (((2 \times (2 \times 22 + 2)) + 2/2)^2) - 2/2 \\
&:= 3 \times (3+3)^3 + ((33/3 + 3 \times 3)^3) \\
&:= 4 + (((44+4) \times (4 \times 44+4)) + 4) \\
&:= 5^5 + (5555 - ((5+5)/5)^5) \\
&:= 66 \times (66+66) - ((6+6)/6)^6 \\
&:= (7/7+7) \times (77 \times (7+7) + ((7+7+7)/7)) \\
&:= 8 + (8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) \\
&:= 9 \times 9 \times (99+9) - (9/9+99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8649 &:= (((1+1)^{11-1} - 1)/11)^{1+1} \\
&:= ((2 \times (2 \times 22 + 2)) + 2/2)^2 \\
&:= (3 \times (3^3 + 3) + 3)^{3-3/3} \\
&:= (((4+4)^4 - 4)/44)^{(4+4)/4} \\
&:= (5 \times 5 \times 5 - ((5+5)/5)^5)^{(5+5)/5} \\
&:= (666/6 - (6+6+6))^{(6+6)/6} \\
&:= (((7+7)/7 + 77) + 7)^{(7+7)/7} \\
&:= 8 + ((8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) + 8/8) \\
&:= 9 \times 9 \times (99+9) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8650 &:= 1 + (((1+1)^{11-1} - 1)/11)^{1+1} \\
&:= 2/2 + (((2 \times (2 \times 22 + 2)) + 2/2)^2) \\
&:= 3/3 + ((3 \times (3^3 + 3) + 3)^{3-3/3}) \\
&:= 4/4 + (((4+4)^4 - 4)/44)^{(4+4)/4} \\
&:= 5 \times ((5^5 - 5 \times (5 \times 55 + 5)) + 5) \\
&:= ((66-6)/6) + (6+6) \times (6+6) \times (66-6) \\
&:= 7777/7 + ((7 \times 77 \times (7+7)) - 7) \\
&:= 8 + ((8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) + ((8+8)/8)) \\
&:= 9/9 + (9 \times 9 \times (99+9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8651 &:= 1 + (1 + (((1+1)^{11-1} - 1)/11)^{1+1}) \\
&:= 2 + (((2 \times (2 \times 22 + 2)) + 2/2)^2) \\
&:= 3 + (((33/3 + 3 \times 3)^3) + 3 \times (3+3)^3) \\
&:= 44/4 + ((44+4) \times (4 \times 44+4)) \\
&:= (5/5+5)^5 + (5 \times (5 \times ((5 \times 5 + 5) + 5))) \\
&:= 6 + ((6/6+6+6) \times (666-6/6)) \\
&:= ((7/7+77) \times 777/7) - 7 \\
&:= 88/8 + (8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) \\
&:= (9+9)/9 + (9 \times 9 \times (99+9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8652 &:= (1 + ((1+1+11) \times 11^{1+1+1}))/ (1+1) \\
&:= (2+2+2) \times (((2+2+2)^2 + 2)^2 - 2) \\
&:= 3 + ((3 \times (3^3 + 3) + 3)^{3-3/3}) \\
&:= 444 + (4 \times (4^4 \times (4+4) + 4)) \\
&:= ((5-5/5+5) + 5) \times ((5^5 - 5 - 5)/5 - 5) \\
&:= (666 \times (6/6+6+6)) - 6 \\
&:= 77 + (7 \times (7 \times (7 \times (7+7) + 77))) \\
&:= ((88+8)/8) + (8 \times ((8 \times (8 \times (8+8) + 8)) - 8)) \\
&:= (99+9)/9 + ((9 \times 9 \times 9 - 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8653 &:= 1 + ((1 + ((1 + 1 + 11) \times 11^{1+1+1})) / (1 + 1)) \\
&:= 2 + (((2 \times (2 \times 22 + 2)) + 2/2)^2) + 2 \\
&:= 3 + (((3 \times (3^3 + 3) + 3)^{3-3/3}) + 3/3) \\
&:= 4 + (((4 + 4)^4 - 4) / 44)^{(4+4)/4} \\
&:= 5 + ((5555 - ((5 + 5) / 5)^5) + 5^5) \\
&:= 6/6 + ((666 \times (6/6 + 6 + 6)) - 6) \\
&:= 7 + (77/7 \times (((7 + 7) / 7) + 777) + 7) \\
&:= (8/8 + 8 + 8) \times ((8 \times 8 \times 8 - 88/8) + 8) \\
&:= 9 + ((99 \times (99 + 9)) - ((9 + 9) / 9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8658 &:= 111 \times (111 - (11 \times (1 + 1 + 1))) \\
&:= 222 \times (2 \times (22 - 2) - 2/2) \\
&:= 333 \times (3^3 - 3/3) \\
&:= 444/4 \times (((4^4 - 4) + 44) / 4) + 4 \\
&:= 5^5 + (5555 - (55 + 55) / 5) \\
&:= 666 \times (6/6 + 6 + 6) \\
&:= (7/7 + 77) \times 777/7 \\
&:= 888/8 \times ((8 - 88) / 8 + 88) \\
&:= (9 \times (9 \times (99 + 9) - 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8663 &:= 1 + ((1 + 11^{1+1}) \times (((1 + 11)^{1+1} / (1 + 1)) - 1)) \\
&:= ((2 + 2 + 2) \times ((2 + 2 + 2)^2 + 2)^2) - 2/2 \\
&:= 3 + (((333 \times (3^3 - 3/3)) - 3/3) + 3) \\
&:= ((4 - 4/4)^4 \times (444/4 - 4)) - 4 \\
&:= 5^5 + (5555 - ((55 + 5) / 5) + 5) \\
&:= 6 + ((666 \times (6/6 + 6 + 6)) - 6/6) \\
&:= 7 + (((((7 + 7) / 7) + 77) + 7) + 7)^{(7+7)/7} + 7) \\
&:= 8 + ((8 - 8/8 + 8) \times (8 \times (8 \times 8 + 8) + 8/8)) \\
&:= ((9 - 9 \times 9) / (9 + 9)) + (9 \times (9 \times (99 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8654 &:= 1 + (1 + ((1 + ((1 + 1 + 11) \times 11^{1+1+1})) / (1 + 1))) \\
&:= 22^2 + ((2^{22/2+2}) - 22) \\
&:= (333 \times (3^3 - 3/3)) - (3/3 + 3) \\
&:= ((4 - 4/4)^4 \times (444 - 4) / 4) - 4^4 \\
&:= 5^5 + (5555 - (5 \times 5 + 5/5)) \\
&:= 6 + (66 \times (66 + 66) - ((6 + 6) / 6)^6) \\
&:= (77/7 \times (77/7 + 777)) - (7 + 7) \\
&:= 8 + (((8 \times ((8 \times (8 \times (8 + 8) + 8)) - 8)) - ((8 + 8) / 8)) + 8) \\
&:= (9 \times (999 - 9)) - (((9 + 9) / 9)^{9-9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8659 &:= 1 + (111 \times (111 - (11 \times (1 + 1 + 1)))) \\
&:= 2/2 + (222 \times (2 \times (22 - 2) - 2/2)) \\
&:= 3/3 + (333 \times (3^3 - 3/3)) \\
&:= (4 \times (4 + 4) \times (4 \times 4 + 4^4)) - (44 + 4/4) \\
&:= 5 + ((5555 - (5 \times 5 + 5/5)) + 5^5) \\
&:= 6/6 + (666 \times (6/6 + 6 + 6)) \\
&:= 7777 + 7 \times (77 + 7 \times 7) \\
&:= 8 + ((8 \times ((8 \times (8 \times (8 + 8) + 8)) - 8)) + (88/8)) \\
&:= 9/9 + ((9 \times (9 \times (99 + 9) - 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8664 &:= (1 + 1) \times ((1 + 1 + 1) \times (1 + (111 \times (1 + 1 + 1)))) \\
&:= (2 + 2 + 2) \times ((2 + 2 + 2)^2 + 2)^2 \\
&:= 3 + ((333 \times (3^3 - 3/3)) + 3) \\
&:= 4 + ((4/4 + 4) \times 4 \times 444 - 44) \\
&:= 5^5 + (5555 - (55/5 + 5)) \\
&:= 6 + (666 \times (6/6 + 6 + 6)) \\
&:= (7/7 - 77) \times ((7 - ((7 + 7) / 7)^7) + 7) \\
&:= (88/8 + 8) \times (8 \times (8 \times 8 - 8) + 8) \\
&:= (9 \times (9 \times (99 + 9) - 9)) - (9 + 9 + 9) / 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8655 &:= (1 + 1 + 1) \times (((1 + 1) \times (111 \times (1 + 1 + 1))) - 1) \\
&:= 2 + (((((2 \times (2 \times 22 + 2)) + 2/2)^2) + 2) + 2) \\
&:= (333 \times (3^3 - 3/3)) - 3 \\
&:= 4 + (((44 + 4) \times (4 \times 44 + 4)) + 44/4) \\
&:= 5^5 + (5555 - 5 \times 5) \\
&:= 6 + ((666/6 - (6 + 6 + 6))^{(6+6)/6}) \\
&:= 77 \times (77 + 7) + ((7 + 7 + 7) / 7)^7 \\
&:= (8 - 8/8 + 8) \times (8 \times (8 \times 8 + 8) + 8/8) \\
&:= (9 \times (9 \times (99 + 9) - 9)) - (99 + 9) / 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8660 &:= 11 + (((1 + 1)^{11-1} - 1) / 11)^{1+1} \\
&:= 2 + (222 \times (2 \times (22 - 2) - 2/2)) \\
&:= 3 + ((333 \times (3^3 - 3/3)) - 3/3) \\
&:= (4/4 + 4) \times (4 \times 444 - 44) \\
&:= 5 + ((5555 - 5 \times 5) + 5^5) \\
&:= (6 + 6) / 6 + (666 \times (6/6 + 6 + 6)) \\
&:= 7/7 + (7 \times (77 + 7 \times 7) + 7777) \\
&:= (8 \times (8 \times (8 \times (8 + 8) + 8))) - (88 / ((8 + 8) / 8)) \\
&:= (9 + 9) / 9 + ((9 \times (9 \times (99 + 9) - 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8665 &:= 1 + ((1 + 1) \times ((1 + 1 + 1) \times (1 + (111 \times (1 + 1 + 1))))) \\
&:= 2/2 + ((2 + 2 + 2) \times ((2 + 2 + 2)^2 + 2)^2) \\
&:= 3 \times 3333 - ((33/3)^3 + 3) \\
&:= 4 \times 4 + (((4 + 4)^4 - 4) / 44)^{(4+4)/4} \\
&:= 5^5 + ((5 + 5) \times (555 - 5/5)) \\
&:= 6 + ((666 \times (6/6 + 6 + 6)) + 6/6) \\
&:= 7 + ((7/7 + 77) \times 777/7) \\
&:= 8/8 + ((88/8 + 8) \times (8 \times (8 \times 8 - 8) + 8)) \\
&:= (9 \times (9 \times (99 + 9) - 9)) - (9 + 9) / 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8656 &:= (1 + 1) \times (((1 + 1 + 1) \times (111 \times (1 + 1 + 1))) - 1) \\
&:= 2 \times ((2^{2+2+2} - 2)^2 + 22^2) \\
&:= 3/3 + ((333 \times (3^3 - 3/3)) - 3) \\
&:= 4 \times (((4 + 4)^4 - 44 \times 44) + 4) \\
&:= 5^5 + ((5555 - 5 \times 5) + 5/5) \\
&:= (666 \times (6/6 + 6 + 6)) - (6 + 6) / 6 \\
&:= 7 + (((((7 + 7) / 7) + 77) + 7) + 7)^{(7+7)/7} \\
&:= 8 + ((8 \times ((8 \times (8 \times (8 + 8) + 8)) - 8)) + 8) \\
&:= (9 \times (9 \times (99 + 9) - 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8661 &:= 1 + (11 + (((1 + 1)^{11-1} - 1) / 11)^{1+1}) \\
&:= 2 + ((222 \times (2 \times (22 - 2) - 2/2)) + 2/2) \\
&:= 3 + (333 \times (3^3 - 3/3)) \\
&:= 4/4 + (4/4 + 4) \times (4 \times 444 - 44) \\
&:= 5 + (((5555 - 5 \times 5) + 5^5) + 5/5) \\
&:= (6 \times 6 / (6 + 6)) + (666 \times (6/6 + 6 + 6)) \\
&:= (77/7 \times (77/7 + 777)) - 7 \\
&:= 8 + ((8/8 + 8 + 8) \times ((8 \times 8 \times 8 - 88/8) + 8)) \\
&:= 9 + ((99 + 9) / 9 \times ((9 \times 9 \times 9 - 9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8666 &:= (1 + 1) \times (((1 + 1) \times ((1 + 1) \times 1111)) - 111) \\
&:= (2 \times (2 \times 2222)) - 222 \\
&:= (3^3 \times (333 - (3 \times 3 + 3))) - 3/3 \\
&:= (4 + 4) / 4 \times (4444 - 444/4) \\
&:= ((5 - 5/5 + 5) + 5) \times ((5^5 - 5) / 5 - 5) \\
&:= 6 + ((666 \times (6/6 + 6 + 6)) + ((6 + 6) / 6)) \\
&:= (7 \times (7 \times (((7 + 7) / 7)^7 + 7 \times 7))) - 7 \\
&:= 8 + (888/8 \times ((8 - 88) / 8 + 88)) \\
&:= (9 \times (9 \times (99 + 9) - 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8657 &:= (111 \times (111 - (11 \times (1 + 1 + 1)))) - 1 \\
&:= 2 \times (2 + 2) + (((2 \times (2 \times 22 + 2)) + 2/2)^2) \\
&:= (333 \times (3^3 - 3/3)) - 3/3 \\
&:= 4 + (((((4 + 4)^4 - 4) / 44)^{(4+4)/4}) + 4) \\
&:= 5^5 + ((5555 - 5 \times 5) + ((5 + 5) / 5)) \\
&:= (666 \times (6/6 + 6 + 6)) - 6/6 \\
&:= 77/7 \times (((77 - 7) / 7) + 777) \\
&:= 8 + (((8 \times ((8 \times (8 \times (8 + 8) + 8)) - 8)) + 8/8) + 8) \\
&:= (9 \times (9 \times (99 + 9) - 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8662 &:= (1 + 11^{1+1}) \times (((1 + 11)^{1+1} / (1 + 1)) - 1) \\
&:= (2 \times ((2 \times 2222) - 2)) - 222 \\
&:= 3 + ((333 \times (3^3 - 3/3)) + 3/3) \\
&:= 4 + (444/4 \times (((4^4 - 4) + 44) / 4) + 4) \\
&:= 5 + (((5555 - 5 \times 5) + ((5 + 5) / 5)) + 5^5) \\
&:= 6 + ((666 \times (6/6 + 6 + 6)) - ((6 + 6) / 6)) \\
&:= 7 + (77 \times (77 + 7) + ((7 + 7 + 7) / 7)^7) \\
&:= ((8 \times 8 - 8/8) + 8) \times ((888 + 88) / 8) \\
&:= ((9 - 99) / (9 + 9)) + (9 \times (9 \times (99 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8667 &:= 11111 - ((1 + 1) \times (1 + 11 \times 111)) \\
&:= 2/2 + ((2 \times (2 \times 2222)) - 222) \\
&:= 3^3 \times (333 - (3 \times 3 + 3)) \\
&:= (4 - 4/4)^4 \times (444/4 - 4) \\
&:= 5^5 + (5555 - (55 + 5 + 5) / 5) \\
&:= 6 + ((666 \times (6/6 + 6 + 6)) + (6 \times 6 / (6 + 6))) \\
&:= 7/7 + ((7 \times (7 \times (((7 + 7) / 7)^7 + 7 \times 7))) - 7) \\
&:= (8/8 + 8) \times ((888 + 88/8) + 8 \times 8) \\
&:= 9 \times (9 \times (99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8668 &:= 11 \times (11 + (111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))))) \\
&:= 2 \times ((2^{2+2+2} + 2)^2 - 22) \\
&:= 3 \times 3333 - (33/3)^3 \\
&:= 44 + (44 \times ((4 \times (44 + 4)) + 4)) \\
&:= 5^5 + (5555 - ((55 + 5)/5)) \\
&:= 66/6 \times ((66 \times (6 + 6) - 6) + ((6 + 6)/6)) \\
&:= 77/7 \times (77/7 + 777) \\
&:= 8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) - (88/((8 + 8)/8))) \\
&:= 9/9 + (9 \times (9 \times (99 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8669 &:= 11111 - ((1 + 1) \times 11 \times 111) \\
&:= 22 + (((2 \times (2 \times 22 + 2)) + 2/2)^2) - 2) \\
&:= 33/3 + (333 \times (3^3 - 3/3)) \\
&:= 44 + ((44 \times ((4 \times (44 + 4)) + 4)) + 4/4) \\
&:= 5^5 + (5555 - (55/5)) \\
&:= 66/6 + (666 \times (6/6 + 6 + 6)) \\
&:= 7/7 + (77/7 \times (77/7 + 777)) \\
&:= 8 \times 8 + (((88 - 8/8) \times (88/8 + 88)) - 8) \\
&:= (9 + 9)/9 + (9 \times (9 \times (99 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8670 &:= 1 + (11111 - ((1 + 1) \times 11 \times 111)) \\
&:= 2 + (2 \times ((2^{2+2+2} + 2)^2 - 22)) \\
&:= 3 + (3^3 \times (333 - (3 \times 3 + 3))) \\
&:= (4^4 - 4/4) \times ((4 - 44)/4 + 44) \\
&:= 5^5 + (5555 - (5 + 5)) \\
&:= 6 + ((666 \times (6/6 + 6 + 6)) + 6) \\
&:= (7 + 7)/7 + (77/7 \times (77/7 + 777)) \\
&:= (8/8 + 8 + 8) \times (8 \times 8 \times 8 - ((8 + 8)/8)) \\
&:= ((9 + 9 + 9)/9) + (9 \times (9 \times (99 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8671 &:= (1 + 1 + 11) \times (1 + (1 + 1) \times (1 + 1 + 1) \times 111) \\
&:= 22 + (((2 \times (2 \times 22 + 2)) + 2/2)^2) \\
&:= 3 + (3 \times 3333 - (33/3)^3) \\
&:= 4 + ((4 - 4/4)^4 \times (444/4 - 4)) \\
&:= 5^5 + ((5555 - (5 + 5)) + 5/5) \\
&:= (6/6 + 6 + 6) \times (666 + 6/6) \\
&:= 7 + ((7/7 - 77) \times ((7 - ((7 + 7)/7)^7) + 7)) \\
&:= 8888 - ((8 \times (8 + 8) + 88) + 8/8) \\
&:= ((9 \times 9 - 9)/(9 + 9)) + (9 \times (9 \times (99 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8672 &:= (1 + 1) \times ((1 + 1) \times (11^{1+1} + ((1 + 1)^{11} - 1))) \\
&:= 2 \times (((2^{2+2+2} + 2)^2 - 22) + 2) \\
&:= 3 + ((333 \times (3^3 - 3/3)) + 33/3) \\
&:= (4 + 4) \times (4 \times (4^4 + 4) + 44) \\
&:= ((5 + 5)/5)^5 \times ((5 \times 55 - 5) + 5/5) \\
&:= 6/6 + ((6/6 + 6 + 6) \times (666 + 6/6)) \\
&:= 7 + (((7/7 + 77) \times 777/7) + 7) \\
&:= 8888 - (8 \times (8 + 8) + 88) \\
&:= (9 - 9/9) \times (9999/9 - (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8673 &:= ((1 + 1 + 111)^{1+1}) - ((1 + 1)^{1+11}) \\
&:= 2 + (((2 \times (2 \times 22 + 2)) + 2/2)^2) + 22) \\
&:= ((3 \times 3 + 3) \times (3^{3+3} - (3 + 3))) - 3 \\
&:= 4/4 + ((4 + 4) \times (4 \times (4^4 + 4) + 44)) \\
&:= 5^5 + (5555 - ((5 + 5)/5 + 5)) \\
&:= (66 - 6/6 - 6) \times (666/6 + 6 \times 6) \\
&:= 7 \times (7 \times (((7 + 7)/7)^7 + 7 \times 7)) \\
&:= (88 \times (8 + 8 + 8)) + (88/8 - 8)^8 \\
&:= 9 + ((9 \times (9 \times (99 + 9) - 9)) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8674 &:= 1 + (((1 + 1 + 111)^{1+1}) - ((1 + 1)^{1+11})) \\
&:= 22^2 + ((2^{22/2+2}) - 2) \\
&:= 3 + ((3 \times 3333 - (33/3)^3) + 3) \\
&:= 4 + ((4^4 - 4/4) \times ((4 - 44)/4 + 44)) \\
&:= 5^5 + (5555 - (5/5 + 5)) \\
&:= 66 \times (66 + 66) - ((6 + 6)/6 + 6 \times 6) \\
&:= 7/7 + (7 \times (7 \times (((7 + 7)/7)^7 + 7 \times 7))) \\
&:= 8 + ((888/8 \times ((8 - 88)/8 + 88)) + 8) \\
&:= 9 + ((9 \times (9 \times (99 + 9) - 9)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8675 &:= ((11 + 11)^{1+1}) + (((1 + 1)^{1+1+11}) - 1) \\
&:= 22^2 + ((2^{22/2+2}) - 2/2) \\
&:= ((3 \times 3 + 3) \times (3^{3+3} - (3 + 3))) - 3/3 \\
&:= 4 + (((4 - 4/4)^4 \times (444/4 - 4)) + 4) \\
&:= 5^5 + ((5 + 5) \times 555) \\
&:= 66 \times (66 + 66) - (6 \times 6 + 6/6) \\
&:= 7 + (77/7 \times (77/7 + 777)) \\
&:= 8 + ((8/8 + 8) \times ((888 + 88/8) + 8 \times 8)) \\
&:= 9 + ((9 \times (9 \times (99 + 9) - 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8676 &:= (1 + 1) \times ((1 + 1) \times (11^{1+1} + (1 + 1)^{11})) \\
&:= 22^2 + (2^{22/2+2}) \\
&:= (3 \times 3 + 3) \times (3^{3+3} - (3 + 3)) \\
&:= 4 + ((4 + 4) \times (4 \times (4^4 + 4) + 44)) \\
&:= 5^5 + (((5 + 5) \times 555) + 5/5) \\
&:= 6 \times (6 \times 6 \times (6 \times 6 + 6) - 66) \\
&:= (77/7 + 7) \times (7 \times (77 - 7) - (7/7 + 7)) \\
&:= ((88 + 8)/8) \times ((88/8 + 8 \times 88) + 8) \\
&:= 9 + (9 \times (9 \times (99 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8677 &:= 1 + ((1 + 1) \times ((1 + 1) \times (11^{1+1} + (1 + 1)^{11}))) \\
&:= 2/2 + ((2^{22/2+2}) + 22^2) \\
&:= 3/3 + ((3 \times 3 + 3) \times (3^{3+3} - (3 + 3))) \\
&:= 4 + (((4 + 4) \times (4 \times (4^4 + 4) + 44)) + 4/4) \\
&:= 5^5 + (((5 + 5) \times 555) + ((5 + 5)/5)) \\
&:= 6 + ((6/6 + 6 + 6) \times (666 + 6/6)) \\
&:= 77 + ((77/7 + 7 + 7) \times (7 \times 7 \times 7 + 7/7)) \\
&:= 8 \times 8 + ((88 - 8/8) \times (88/8 + 88)) \\
&:= 9 + ((9 \times (9 \times (99 + 9) - 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8678 &:= (1 + 1) \times (1 + ((1 + 1) \times (11^{1+1} + (1 + 1)^{11}))) \\
&:= 2 + ((2^{22/2+2}) + 22^2) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - (3 + 3))) - 3/3) \\
&:= 4 + (((4^4 - 4/4) \times ((4 - 44)/4 + 44)) + 4) \\
&:= 5^5 + (5555 - ((5 + 5)/5)) \\
&:= (6 + 6)/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) - 66)) \\
&:= ((7/7 + 7) \times (77 \times (7 + 7) + 7)) - (7 + 7)/7 \\
&:= 8 + ((8/8 + 8 + 8) \times (8 \times 8 \times 8 - ((8 + 8)/8))) \\
&:= 99/9 + (9 \times (9 \times (99 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8679 &:= 11 \times ((1 + 1 + 1) \times (((1 + 1) \times (11 \times (1 + 11))) - 1)) \\
&:= 22 \times (22 - 2)^2 - (22/2)^2 \\
&:= 3 + ((3 \times 3 + 3) \times (3^{3+3} - (3 + 3))) \\
&:= 4444/4 + (44 \times (4 \times 44 - 4)) \\
&:= 5^5 + (5555 - 5/5) \\
&:= 66/6 \times (((6 \times 6/6 + 6 + 6))^6 - 6) + 66) \\
&:= 77/7 \times ((77 + 7)/7 + 777) \\
&:= ((8/8 + 8 + 8) \times (8 \times 8 \times 8 - 8/8)) - 8 \\
&:= (99 + 9)/9 + (9 \times (9 \times (99 + 9) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8680 &:= (1 + 1) \times ((1 + 1) \times (1 + (11^{1+1} + (1 + 1)^{11}))) \\
&:= 2 + 2 + 2^{22/2+2} + 22^2 \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - (3 + 3))) + 3/3) \\
&:= 4 + (((4 + 4) \times (4 \times (4^4 + 4) + 44)) + 4) \\
&:= 5^5 + 5555 \\
&:= (6 \times 6 \times 6 + 6/6) \times ((6 \times 6 - ((6 + 6)/6)) + 6) \\
&:= (7/7 + 7) \times (77 \times (7 + 7) + 7) \\
&:= (8 \times (8 \times (8 \times (8 + 8) + 8))) - 8 - 8 - 8 \\
&:= 99 \times 99 - ((9999 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8681 &:= 1 + ((1 + 1) \times ((1 + 1) \times (1 + (11^{1+1} + (1 + 1)^{11})))) \\
&:= 2 + 22 \times (22 - 2)^2 - (22/2)^2 \\
&:= ((3^3 - 3/3) \times (333 + 3/3)) - 3 \\
&:= ((44 + 4/4) \times (((4 - 4^4)/4) + 4^4)) - 4 \\
&:= 5^5 + (5555 + 5/5) \\
&:= 6 + (66 \times (66 + 66) - (6 \times 6 + 6/6)) \\
&:= 7/7 + ((7/7 + 7) \times (77 \times (7 + 7) + 7)) \\
&:= 8 + ((88 \times (8 + 8 + 8)) + (88/8 - 8)^8) \\
&:= 99 \times 99 - (9999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8682 &:= (1 + 1) \times (1 + ((1 + 1) \times (1 + (11^{1+1} + (1 + 1)^{11})))) \\
&:= 2 + 2^{22/2+2} + 22^2 + 2 + 2 \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - (3 + 3))) + 3) \\
&:= (4 + 4)/4 \times (((4 + 4)^4 - 44/4) + 4^4) \\
&:= 5^5 + (5555 + ((5 + 5)/5)) \\
&:= 6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) - 66)) \\
&:= 7 + ((77/7 \times (77/7 + 777)) + 7) \\
&:= (8 \times (8 \times (8 \times (8 + 8) + 8))) - (88 + 88)/8 \\
&:= 99 \times 99 + (((9 - 9999)/9) - 9)
\end{aligned}$$

- ▶ 8683 := $((1+1) \times ((1+1+11) \times (1+(1+1+1) \times 111))) - 1$ ▶ 8688 := $(1+1) \times ((1+11) \times ((11 \times (11 \times (1+1+1))) - 1))$ ▶ 8693 := $11111 - ((1+1) \times ((11 \times (111-1)) - 1))$
:= $2 + 22 \times (22-2)^2 - (22/2)^2 + 2$:= $2 + (((2 \times (2 \times 22 + 2))^2) + 222)$:= $2 \times 22 + (((2 \times (2 \times 22 + 2)) + 2/2)^2)$
:= $(3 \times (3 \times (3 \times 333 - 33))) - 33/3$:= $(3^3 - 3) \times ((33 \times 33 - 3)/3)$:= $(3 \times (3 \times (3 \times 333 - 33))) - 3/3$
:= $4 \times 4 + ((4-4/4)^4 \times (444/4 - 4))$:= $4 \times ((4+4) \times (4 \times 4 + 4^4) - 4)$:= $(4 \times (4+4) \times (4 \times 4 + 4^4)) - 44/4$
:= $5 + ((5555 - ((5+5)/5)) + 5^5)$:= $5 + (((5555 - ((5+5)/5)) + 5^5) + 5)$:= $5^5 + ((55+5+5)/5 + 5555)$
:= $6 + (((6/6+6+6) \times (666+6/6)) + 6)$:= $(6+6) \times ((66 \times 66 - 6 - 6)/6)$:= $6 \times 6 + ((666 \times (6/6+6+6)) - 6/6)$
:= $(77/7 \times (((777-7/7) + 7) + 7)) - 7$:= $(7/7+7) \times ((77 \times (7+7) + 7/7) + 7)$:= $77 + ((7/7+7) \times (77 \times (7+7) - 7/7))$
:= $(88/8+8) \times ((8 \times (8 \times 8 - 8) + 8/8) + 8)$:= $(8 \times (8 \times (8 \times (8+8) + 8))) - 8 - 8$:= $(8 \times (8 \times (8 \times (8+8) + 8))) - 88/8$
:= $9 + (((9 \times (9 \times (99+9) - 9)) - ((9+9)/9)) + 9)$:= $9 + ((9 \times (9 \times (99+9) - 9)) + (99+9)/9)$:= $((9+9)/9)^9 + 9 \times (9 \times 99 + 9 + 9)$
- ▶ 8684 := $(1+1) \times ((1+1+11) \times (1+(1+1+1) \times 111))$ ▶ 8689 := $((11 \times (11-1-1))^{1+1}) - (1+1111)$ ▶ 8694 := $(1+1) \times ((11-1-1) \times (((11+11)^{1+1}) - 1))$
:= $222 + (((2 \times (2 \times 22 + 2))^2) - 2)$:= $22 \times (22-2)^2 - 222/2$:= $(2/2+2)^2 \times (2 \times 22^2 - 2)$
:= $(3^3 - 3/3) \times (333+3/3)$:= $3/3 + ((3^3 - 3) \times ((33 \times 33 - 3)/3))$:= $3 \times (3 \times (3 \times 333 - 33))$
:= $44 + ((44+4) \times (4 \times 44 + 4))$:= $4/4 + (4 \times ((4+4) \times (4 \times 4 + 4^4) - 4))$:= $((44-4)/4+4) \times ((4/4+4)^4 - 4)$
:= $5 + ((5555 - 5/5) + 5^5)$:= $5 + (((5555 - 5/5) + 5^5) + 5)$:= $((5-5/5+5) + 5) \times ((5^5+5)/5 - 5)$
:= $(6/6+6+6) \times (666+(6+6)/6)$:= $6/6 + ((6+6) \times ((66 \times 66 - 6 - 6)/6))$:= $6 \times 6 + (666 \times (6/6+6+6))$
:= $7 \times 7 + (77/7 \times ((777+7/7) + 7))$:= $7 + (((77/7 \times (77/7+777)) + 7) + 7)$:= $(77+7 \times 7) \times (77 - (7/7+7))$
:= $(8 \times (8 \times (8 \times (8+8) + 8))) - ((88+8)/8+8)$:= $8/8 + ((8 \times (8 \times (8 \times (8+8) + 8))) - (8+8))$:= $(8/8+8) \times ((88 \times 88 - (8+8))/8)$
:= $9 + (((9 \times (9 \times (99+9) - 9)) - 9/9) + 9)$:= $99 \times 99 - (9999+9)/9$:= $9 + (((9 \times (9 \times (99+9) - 9)) + 9) + 9)$
- ▶ 8685 := $1 + ((1+1) \times ((1+1+11) \times (1+(1+1+1) \times 111)))$ ▶ 8690 := $(111-1) \times ((11-1-1)^{1+1} - (1+1))$ ▶ 8695 := $(1+(1+1+1+1)) \times (11 + ((1+11)^{1+1+1}))$
:= $222 + (((2 \times (2 \times 22 + 2))^2) - 2/2)$:= $2 \times (2^{2+2+2} + 2)^2 - 22$:= $2/2 + ((2/2+2)^2 \times (2 \times 22^2 - 2))$
:= $3 \times (3 \times (3 \times 333 - 33)) - 3$:= $3 + (((3^3 - 3/3) \times (333+3/3)) + 3)$:= $3/3 + (3 \times (3 \times (3 \times 333 - 33)))$
:= $(44+4/4) \times (((4-4^4)/4) + 4^4)$:= $(4+4)/4 + (4 \times ((4+4) \times (4 \times 4 + 4^4) - 4))$:= $(4 \times (4+4) \times (4 \times 4 + 4^4)) - (4/4+4+4)$
:= $5 + (5555 + 5^5)$:= $5 + ((5555 + 5^5) + 5)$:= $5 + (((5555 + 5^5) + 5) + 5)$
:= $666 + ((66/6) \times ((6 \times 6/(6+6))^6))$:= $66/6 \times (66 \times (6+6) - ((6+6)/6))$:= $66 \times (66+66) - (66/6+6)$
:= $7 + (((7/7+7) \times (77 \times (7+7) + 7)) - ((7+7)/7))$:= $77/7 \times (((777-7/7) + 7) + 7)$:= $7 + ((7/7+7) \times ((77 \times (7+7) + 7/7) + 7))$
:= $(8 \times (8 \times (8 \times (8+8) + 8))) - (88/8+8)$:= $((8/8-88)+8) \times ((8-888)/8)$:= $(8 \times (8 \times (8 \times (8+8) + 8))) - (8/8+8)$
:= $9 + ((9 \times (9 \times (99+9) - 9)) + 9)$:= $99 \times 99 - 9999/9$:= $((9-9/9)+9) \times ((9+9)/9)^9 - 9$
- ▶ 8686 := $(1+1) \times (1 + ((1+1+11) \times (1+(1+1+1) \times 111)))$ ▶ 8691 := $1 + ((111-1) \times ((11-1-1)^{1+1} - (1+1)))$ ▶ 8696 := $1 + ((1+(1+1+1+1)) \times (11 + ((1+11)^{1+1+1})))$
:= $222 + ((2 \times (2 \times 22 + 2))^2)$:= $2 + 22 \times (22-2)^2 - 222/2$:= $2 + ((2/2+2)^2 \times (2 \times 22^2 - 2))$
:= $3^3 + ((333 \times (3^3 - 3/3)) + 3/3)$:= $33 + (333 \times (3^3 - 3/3))$:= $3 + ((3 \times (3 \times (3 \times 333 - 33))) - 3/3)$
:= $(4 \times ((4+4) \times (4 \times 4 + 4^4) - 4)) - (4+4)/4$:= $4 + ((4 \times 4 + 4/4) \times ((4^4 - 4/4) + 4^4))$:= $(4+4) \times (((4^4 - 4)/4) + 4 \times 4^4)$
:= $5 + ((5555 + 5/5) + 5^5)$:= $5^5 + (5555 + (55/5))$:= $5 + ((5555 + (55/5)) + 5^5)$
:= $((6+6)/6) \times (66 \times 66 - (6/6+6+6))$:= $6 + (((66/6) \times ((6 \times 6/(6+6))^6)) + 666)$:= $6 + ((66/6) \times (66 \times (6+6) - ((6+6)/6)))$
:= $7 + (77/7 \times ((77+7)/7 + 777))$:= $((7+7) \times 777) - ((7+7+7)/7)^7$:= $(7/7+7) \times ((77 \times (7+7) + ((7+7)/7)) + 7)$
:= $(8-88)/8 + ((8 \times (8 \times (8 \times (8+8) + 8))) - 8)$:= $(8 \times (8 \times (8 \times (8+8) + 8))) - (88+8+8)/8$:= $(8 \times (8 \times (8 \times (8+8) + 8))) - 8$
:= $9 + (((9 \times (9 \times (99+9) - 9)) + 9/9) + 9)$:= $99 \times 99 + ((9-9999)/9)$:= $(9-9/9) \times ((99 \times 99 - (9+9))/9)$
- ▶ 8687 := $11 + ((1+1) \times ((1+1) \times (11^{1+1} + (1+1)^{11})))$ ▶ 8692 := $1 + (1 + ((111-1) \times ((11-1-1)^{1+1} - (1+1))))$ ▶ 8697 := $(1+1+1) \times ((1+1+11) \times (1+(1+1) \times 111))$
:= $2/2 + (((2 \times (2 \times 22 + 2))^2) + 222)$:= $2 + ((2 \times (2^{2+2+2} + 2)^2) - 22)$:= $(222+2/2) \times (2 \times (22-2) - 2/2)$
:= $3 + ((3^3 - 3/3) \times (333+3/3))$:= $3/3 + ((333 \times (3^3 - 3/3)) + 33)$:= $3 + (3 \times (3 \times (3 \times 333 - 33)))$
:= $(4 \times 4 + 4/4) \times ((4^4 - 4/4) + 4^4)$:= $4 + (4 \times ((4+4) \times (4 \times 4 + 4^4) - 4))$:= $4 + ((4 \times (4+4) \times (4 \times 4 + 4^4)) - 44/4)$
:= $5 + ((5555 + ((5+5)/5)) + 5^5)$:= $5^5 + (5555 + ((55+5)/5))$:= $5 + ((5555 + ((55+5)/5)) + 5^5)$
:= $66/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) - 66))$:= $((6+6)/6) \times (((6-66)/6) + 66 \times 66)$:= $(6/6+6+6) \times ((6 \times 6/(6+6)) + 666)$
:= $7 + ((7/7+7) \times (77 \times (7+7) + 7))$:= $(77/7-7) \times (((7+7+7)/7)^7 - (7+7))$:= $7 + (77/7 \times (((777-7/7) + 7) + 7))$
:= $(8/8+8+8) \times (8 \times 8 \times 8 - 8/8)$:= $(8 \times (8 \times (8 \times (8+8) + 8))) - (88+8)/8$:= $8/8 + ((8 \times (8 \times (8 \times (8+8) + 8))) - 8)$
:= $9 + ((9 \times (9 \times (99+9) - 9)) + (99/9))$:= $(9/9+9 \times 9) \times ((99 - ((9+9)/9)) + 9)$:= $999/9 + 9 \times (9 \times (99+9) - 9 - 9)$

- 8698 := $1 + ((1 + 1 + 1) \times ((1 + 1 + 11) \times (1 + (1 + 1) \times 111)))$
:= $22 + (2^{22+2+2} + 22^2)$
:= $3 + ((3 \times (3 \times (3 \times 333 - 33))) + 3/3)$
:= $4 + (((44 - 4)/4 + 4) \times ((4/4 + 4)^4 - 4))$
:= $((5 + 5 + 5) \times (555 + 5 \times 5)) - (5 + 5)/5$
:= $((6 + 6)/6) \times (66 \times 66 - (6/6 + 6))$
:= $7 + (((7 + 7) \times 777) - ((7 + 7 + 7)/7)^7)$
:= $(8 + 8)/8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) - 8)$
:= $9 + (99 \times 99 - (9999 + 9)/9)$
- 8699 := $((11 \times (1 + 11))^{1+1})/(1 + 1) - 1 - 1 - 11$
:= $(2 \times (2^{2+2+2} + 2)^2) - (2/2 + 2)$
:= $((3/3 + 3) \times ((3 \times (3^{3+3} - 3)) - 3)) - 3/3$
:= $(4 \times (4 + 4) \times (4 \times 4 + 4^4)) - 4/4 - 4$
:= $((5 + 5 + 5) \times (555 + 5 \times 5)) - 5/5$
:= $66 \times (66 + 66) - (6/6 + 6 + 6)$
:= $(77 \times (777 + 7 + 7)/7) - (7 + 7)/7$
:= $88/8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) - (8 + 8))$
:= $9 + (99 \times 99 - 9999/9)$
- 8700 := $((11 \times (1 + 11))^{1+1})/(1 + 1) - 1 - 11$
:= $2 \times ((2^{2+2+2} + 2)^2 - (2 + 2 + 2))$
:= $(3/3 + 3) \times ((3 \times (3^{3+3} - 3)) - 3)$
:= $(4 \times (4 + 4) \times (4 \times 4 + 4^4)) - 4$
:= $(5 + 5 + 5) \times (555 + 5 \times 5)$
:= $(6 + 6) \times ((66 \times 66 - 6)/6)$
:= $(77 \times (777 + 7 + 7)/7) - 7/7$
:= $(8/8 - 88) \times ((88 - 888)/8)$
:= $(9/9 + 99) \times (99 - (99 + 9)/9)$
- 8701 := $((11 \times (1 + 11))^{1+1})/(1 + 1) - 11$
:= $(2 \times (2^{2+2+2} + 2)^2) - 22/2$
:= $33/3 \times ((33 \times (3^3 - 3)) - 3/3)$
:= $4/4 + ((4 \times (4 + 4) \times (4 \times 4 + 4^4)) - 4)$
:= $5/5 + ((5 + 5 + 5) \times (555 + 5 \times 5))$
:= $66/6 \times (66 \times (6 + 6) - 6/6)$
:= $77 \times (777 + 7 + 7)/7$
:= $8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) - (88/8))$
:= $99/9 \times (9 \times 99 - (9/9 + 99))$
- 8702 := $1 + (((11 \times (1 + 11))^{1+1})/(1 + 1) - 11)$
:= $(2 \times ((2^{2+2+2} + 2)^2 - (2 + 2))) - 2$
:= $3^{3+3} + (((33/3 + 3 \times 3^3) - 3^3)$
:= $(4 + 4)/4 \times (((4 + 4)^4 - 4/4 + 4^4)$
:= $5^5 + ((55 + 55)/5 + 5555)$
:= $((6 + 6)/6) \times ((66 \times 66 - 6) + 6/6)$
:= $7/7 + (77 \times (777 + 7 + 7)/7)$
:= $(8 \times (8 \times (8 \times (8 + 8) + 8))) - (8 + 8)/8$
:= $(99 \times (99 - (99/9))) - 9/9 - 9$
- 8703 := $1 + (1 + (((11 \times (1 + 11))^{1+1})/(1 + 1) - 11))$
:= $(2/2 + 2)^2 \times (2 \times 22^2 - 2/2)$
:= $3 \times ((3 \times (3 \times 333 - 33)) + 3)$
:= $(4 \times (4 + 4) \times (4 \times 4 + 4^4)) - 4/4$
:= $5 \times 5 + ((5555 - ((5 + 5)/5)) + 5^5)$
:= $((6 - 66) + 6)/6 + 66 \times (66 + 66)$
:= $(7 + 7)/7 + (77 \times (777 + 7 + 7)/7)$
:= $(8 \times (8 \times (8 \times (8 + 8) + 8))) - 8/8$
:= $(99 \times (99 - (99/9))) - 9$
- 8704 := $((1 + 1)^{1+1+11}) + (1 + 1)^{11-1-1}$
:= $2 \times ((2^{2+2+2} + 2)^2 - (2 + 2))$
:= $(3/3 + 3) \times (3 \times 3^{3+3} - 33/3)$
:= $4 \times (4 + 4) \times (4 \times 4 + 4^4)$
:= $5 \times 5 + ((5555 - 5/5) + 5^5)$
:= $66 \times (66 + 66) - ((6 + 6)/6 + 6)$
:= $((7 + 7)/7)^7 \times (77 - ((7 + 7)/7 + 7))$
:= $8 \times (8 \times (8 \times (8 + 8) + 8))$
:= $((9 - 9/9) + 9) \times ((9 + 9)/9)^9$
- 8705 := $1 + (((1 + 1)^{1+1+11}) + (1 + 1)^{11-1-1})$
:= $2 + ((2/2 + 2)^2 \times (2 \times 22^2 - 2/2))$
:= $33/3 + (3 \times (3 \times (3 \times 333 - 33)))$
:= $4/4 + (4 \times (4 + 4) \times (4 \times 4 + 4^4))$
:= $5 \times 5 + (5555 + 5^5)$
:= $66 \times (66 + 66) - 6/6 - 6$
:= $((7/7 + 7) \times (77 \times (7 + 7) + (77/7))) - 7$
:= $8/8 + (8 \times (8 \times (8 \times (8 + 8) + 8)))$
:= $9/9 + (((9 - 9/9) + 9) \times ((9 + 9)/9)^9)$
- 8706 := $((11 \times (1 + 11))^{1+1}) - (1 + 11)/(1 + 1)$
:= $(2 \times ((2^{2+2+2} + 2)^2 - 2)) - 2$
:= $((3 \times 3 + 3) \times (3^{3+3} - 3)) - 3 - 3$
:= $(4 + 4)/4 + (4 \times (4 + 4) \times (4 \times 4 + 4^4))$
:= $5 \times 5 + ((5555 + 5/5) + 5^5)$
:= $66 \times (66 + 66) - 6$
:= $7777/7 + (7 \times (77 \times (7 + 7) + 7))$
:= $(8 + 8)/8 + (8 \times (8 \times (8 \times (8 + 8) + 8)))$
:= $(9 + 9)/9 + (((9 - 9/9) + 9) \times ((9 + 9)/9)^9)$
- 8707 := $(1 + (((11 \times (1 + 11))^{1+1}) - 11))/(1 + 1)$
:= $(2 \times ((2^{2+2+2} + 2)^2 - 2)) - 2/2$
:= $3 + ((3/3 + 3) \times (3 \times 3^{3+3} - 33/3))$
:= $4 + ((4 \times (4 + 4) \times (4 \times 4 + 4^4)) - 4/4)$
:= $5 \times 5 + ((5555 + ((5 + 5)/5)) + 5^5)$
:= $6/6 + (66 \times (66 + 66) - 6)$
:= $7 \times 7 + ((7/7 + 77) \times 777/7)$
:= $88/8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) - 8)$
:= $9 \times 9 \times (99 + 9) - ((9 \times 9 \times 9 + 9)/(9 + 9))$
- 8708 := $1 + ((1 + (((11 \times (1 + 11))^{1+1}) - 11))/(1 + 1))$
:= $2 \times ((2^{2+2+2} + 2)^2 - 2)$
:= $(3/3 + 3) \times ((3 \times (3^{3+3} - 3)) - 3/3)$
:= $4 + (4 \times (4 + 4) \times (4 \times 4 + 4^4))$
:= $((5 + 5)/5 + 5) \times (((5^5 - 5 + 5^5)/5) - 5)$
:= $(6 + 6)/6 + (66 \times (66 + 66) - 6)$
:= $7 + (77 \times (777 + 7 + 7)/7)$
:= $8 \times 8/(8 + 8) + (8 \times (8 \times (8 \times (8 + 8) + 8)))$
:= $9 + ((99 \times 99 - 9999/9) + 9)$
- 8709 := $((11 \times (1 + 11))^{1+1})/(1 + 1) - 1 - 1 - 1$
:= $2/2 + (2 \times ((2^{2+2+2} + 2)^2 - 2))$
:= $((3 \times 3 + 3) \times (3^{3+3} - 3)) - 3$
:= $4 + ((4 \times (4 + 4) \times (4 \times 4 + 4^4)) + 4/4)$
:= $5 + (((5555 - 5/5) + 5^5) + 5 \times 5)$
:= $66 \times (66 + 66) - 6 \times 6/(6 + 6)$
:= $7 + ((77 \times (777 + 7 + 7)/7) + 7/7)$
:= $8 + (((8 \times (8 \times (8 \times (8 + 8) + 8))) - (88/8)) + 8)$
:= $9 + ((9/9 + 99) \times (99 - (99 + 9)/9))$
- 8710 := $((11 \times (1 + 11))^{1+1})/(1 + 1) - 1 - 1$
:= $(2 \times (2^{2+2+2} + 2)^2) - 2$
:= $3/3 + (((3 \times 3 + 3) \times (3^{3+3} - 3)) - 3)$
:= $4 + ((4 \times (4 + 4) \times (4 \times 4 + 4^4)) + (4 + 4)/4)$
:= $5 + ((5555 + 5 \times 5) + 5^5)$
:= $((6 + 6)/6) \times (66 \times 66 - 6/6)$
:= $7777/7 - 7 \times 7 \times 7 \times 7$
:= $8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) - ((8 + 8)/8))$
:= $(9/9 + 9) \times (9 \times 99 - (99/9 + 9))$
- 8711 := $((11 \times (1 + 11))^{1+1})/(1 + 1) - 1$
:= $(2 \times (2^{2+2+2} + 2)^2) - 2/2$
:= $((3 \times 3 + 3) \times (3^{3+3} - 3)) - 3/3$
:= $4 + (((4 \times (4 + 4) \times (4 \times 4 + 4^4)) - 4/4) + 4)$
:= $5 + (((5555 + 5 \times 5) + 5^5) + 5/5)$
:= $66 \times (66 + 66) - 6/6$
:= $7 + (((7 + 7)/7)^7 \times (77 - ((7 + 7)/7 + 7)))$
:= $8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) - 8/8)$
:= $(99 \times (99 - (99/9))) - 9/9$
- 8712 := $((11 \times (1 + 11))^{1+1})/(1 + 1)$
:= $2 \times (2^{2+2+2} + 2)^2$
:= $(3 \times 3 + 3) \times (3^{3+3} - 3)$
:= $4 + ((4 \times (4 + 4) \times (4 \times 4 + 4^4)) + 4)$
:= $5^5 + (5555 + ((5 + 5)/5)^5)$
:= $66 \times (66 + 66)$
:= $(7/7 + 7) \times (77 \times (7 + 7) + (77/7))$
:= $8 + (8 \times (8 \times (8 \times (8 + 8) + 8)))$
:= $99 \times (99 - (99/9))$

$$\begin{aligned}
\blacktriangleright 8713 &:= 1 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)) \\
&:= 2/2 + (2 \times (2^{2+2+2} + 2)^2) \\
&:= 3/3 + ((3 \times 3 + 3) \times (3^{3+3} - 3)) \\
&:= 4 + (((4 \times (4 + 4) \times (4 \times 4 + 4^4)) + 4/4) + 4) \\
&:= (((5 + 5)/5)^5 \times (5 \times 55 - 5/5)) - 55 \\
&:= 6/6 + 66 \times (66 + 66) \\
&:= ((77/7 - 7) \times (((7 + 7 + 7)/7)^7 - 7)) - 7 \\
&:= 8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) + 8/8) \\
&:= 9 + (((9 - 9/9) + 9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8714 &:= 1 + (1 + (((11 \times (1 + 11))^{1+1}) / (1 + 1))) \\
&:= 2 + (2 \times (2^{2+2+2} + 2)^2) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - 3)) - 3/3) \\
&:= (4 + 4)/4 + (((4 + 4)^4 + 4/4 + 4^4) + 4) \\
&:= 5^5 + ((5 - 5/5 + 5) \times ((5^5 + 5)/5 - 5)) \\
&:= (6 + 6)/6 + 66 \times (66 + 66) \\
&:= 7 + (((7/7 + 77) \times 777/7) + 7 \times 7) \\
&:= 8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) + ((8 + 8)/8)) \\
&:= (9 + 9)/9 + (99 \times (99 - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8715 &:= 1 + (1 + (1 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)))) \\
&:= 2 + ((2 \times (2^{2+2+2} + 2)^2) + 2/2) \\
&:= 3 + ((3 \times 3 + 3) \times (3^{3+3} - 3)) \\
&:= 44/4 + (4 \times (4 + 4) \times (4 \times 4 + 4^4)) \\
&:= 5 + (((5555 + 5 \times 5) + 5^5) + 5) \\
&:= (6 \times 6 / (6 + 6)) + 66 \times (66 + 66) \\
&:= (7/7 + 7 + 7) \times (7 \times (77 + 7) - 7) \\
&:= 88/8 + (8 \times (8 \times (8 \times (8 + 8) + 8))) \\
&:= 99/9 + (((9 - 9/9) + 9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8716 &:= 1 + (1 + (1 + (1 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)))))) \\
&:= 2 \times ((2^{2+2+2} + 2)^2 + 2) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - 3)) + 3/3) \\
&:= (4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) - 4 \\
&:= 5 \times 5 + ((5555 + (55/5)) + 5^5) \\
&:= 6 + (((6 + 6)/6) \times (66 \times 66 - 6/6)) \\
&:= 7/7 + ((7/7 + 7 + 7) \times (7 \times (77 + 7) - 7)) \\
&:= ((88 + 8)/8) + (8 \times (8 \times (8 \times (8 + 8) + 8))) \\
&:= 9 + (9 \times 9 \times (99 + 9) - ((9 \times 9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8717 &:= (11 + (((11 \times (1 + 11))^{1+1}) - 1)) / (1 + 1) \\
&:= 2/2 + (2 \times ((2^{2+2+2} + 2)^2 + 2)) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - 3)) - 3/3) + 3 \\
&:= 4/4 + ((4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) - 4) \\
&:= 5 + ((5555 + ((5 + 5)/5)^5) + 5^5) \\
&:= 6 + (66 \times (66 + 66) - 6/6) \\
&:= 7 + (7777/7 - 7 \times 7 \times 7) \\
&:= 8888 - ((8/8 + 8) \times (88/8 + 8)) \\
&:= 9 \times 9 \times (99 + 9) - (((99 + 99)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8718 &:= (1 + (11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)))) / (1 + 1) \\
&:= 2 + (2 \times ((2^{2+2+2} + 2)^2 + 2)) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - 3)) + 3) \\
&:= (4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) - (4 + 4)/4 \\
&:= 5 \times (5^5 - 5 \times 5 \times 55) - ((5 + 5)/5)^5 \\
&:= 6 + 66 \times (66 + 66) \\
&:= 7 + (((7 + 7)/7)^7 \times (77 - ((7 + 7)/7 + 7))) + 7 \\
&:= 8 + (((8 \times (8 \times (8 \times (8 + 8) + 8))) - ((8 + 8)/8)) + 8) \\
&:= (9 \times (9 \times (99 + 9) + 9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8719 &:= 1 + (1 + (11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)))) / (1 + 1) \\
&:= 2 + ((2 \times ((2^{2+2+2} + 2)^2 + 2)) + 2/2) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} - 3)) + 3/3) + 3 \\
&:= (4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) - 4/4 \\
&:= 5^5 + (((5 + 5) \times (555 + 5)) - (5/5 + 5)) \\
&:= 6 + (66 \times (66 + 66) + 6/6) \\
&:= 7 + ((7/7 + 7) \times (77 \times (7 + 7) + (77/7))) \\
&:= 8 + (((8 \times (8 \times (8 \times (8 + 8) + 8))) - 8/8) + 8) \\
&:= 9 \times 9 \times (99 + 9) - (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8720 &:= (111 - 1 - 1) \times ((11 - 1 - 1)^{1+1} - 1) \\
&:= 2 \times (((2^{2+2+2} + 2)^2 + 2) + 2) \\
&:= (3 \times 3 - 3/3) \times (33 \times 33 + 3/3) \\
&:= 4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4) \\
&:= 5^5 + (((5 + 5) \times (555 + 5)) - 5) \\
&:= 6 + (66 \times (66 + 66) + ((6 + 6)/6)) \\
&:= (77/7 - 7) \times (((7 + 7 + 7)/7)^7 - 7) \\
&:= 8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) + 8) \\
&:= (9 - 9/9) \times ((99 \times 99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8721 &:= 1 + ((111 - 1 - 1) \times ((11 - 1 - 1)^{1+1} - 1)) \\
&:= (2/2 + 2)^2 \times (2 \times 22^2 + 2/2) \\
&:= 3 \times (3 \times ((3^3 \times (33 + 3)) - 3)) \\
&:= 4/4 + (4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) \\
&:= (5 - 5/5 + 5) \times ((5 - 5/5)^5 - 55) \\
&:= ((6 + 6) \times 666) + ((6 \times 6 / (6 + 6))^6) \\
&:= ((7 + 7) \times (7 \times 77 + 77 + 7)) - 7/7 \\
&:= (8/8 + 8) \times ((88 \times 88 + 8)/8) \\
&:= 9 + (99 \times (99 - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8722 &:= 11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)) - 1 \\
&:= 2 + (2 \times ((2^{2+2+2} + 2)^2 + 2)) \\
&:= 3/3 + (3 \times (3 \times ((3^3 \times (33 + 3)) - 3))) \\
&:= (4 + 4)/4 + (4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) \\
&:= ((5 - 5/5 + 5) + 5) \times (5^5 - 5 - 5)/5 \\
&:= ((6 + 6)/6) \times ((66 \times 66 - 6/6) + 6) \\
&:= (7 + 7) \times (7 \times 77 + 77 + 7) \\
&:= (8/8 + 88) \times (((8 + 8)/8 + 88) + 8) \\
&:= (99 - 9/9) \times ((9 \times 9 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8723 &:= 11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)) \\
&:= 22/2 + (2 \times (2^{2+2+2} + 2)^2) \\
&:= 33/3 + ((3 \times 3 + 3) \times (3^{3+3} - 3)) \\
&:= 4 + ((4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) - 4/4) \\
&:= 5^5 + (((5 + 5) \times (555 + 5)) - ((5 + 5)/5)) \\
&:= 66/6 + 66 \times (66 + 66) \\
&:= 7/7 + ((7 + 7) \times (7 \times 77 + 77 + 7)) \\
&:= 8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) + (88/8)) \\
&:= 99/9 + (99 \times (99 - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8724 &:= 1 + (11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1))) \\
&:= 2 \times (((2^{2+2+2} + 2)^2 + 2) + 2) + 2 \\
&:= 3 + (3 \times (3 \times ((3^3 \times (33 + 3)) - 3))) \\
&:= 4 + (4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) \\
&:= 5^5 + (((5 + 5) \times (555 + 5)) - 5/5) \\
&:= 6 + (66 \times (66 + 66) + 6) \\
&:= 7 \times 77 + (((7 + 7)/7)^{7-7/7+7} - 7) \\
&:= 8 + ((8 \times (8 \times (8 \times (8 + 8) + 8))) + ((88 + 8)/8)) \\
&:= (99 + 9)/9 \times (9 \times 9 \times 9 - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8725 &:= 1 + (1 + (11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)))) \\
&:= 2 + ((2 \times (2^{2+2+2} + 2)^2) + 22/2) \\
&:= 3 + ((3 \times (3 \times ((3^3 \times (33 + 3)) - 3))) + 3/3) \\
&:= 4 + ((4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) + 4/4) \\
&:= 5 \times (5^5 - (5 \times 5 \times 55 + 5)) \\
&:= 6 + ((66 \times (66 + 66) + 6/6) + 6) \\
&:= (77/7 + 7 + 7) \times ((7 \times 7 \times 7 - 7/7) + 7) \\
&:= 8888 - ((88/8 + 88) + 8 \times 8) \\
&:= 9 \times 9 \times (99 + 9) - (99 + 99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8726 &:= 1 + (1 + (1 + (11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)))))) \\
&:= ((2^{2+2} + 2) \times (22^2 + 2)) - 22 \\
&:= 3^{3+3} + (((33/3 + 3 \times 3)^3) - 3) \\
&:= (4 + 4)/4 \times ((44/4 + (4 + 4)^4) + 4^4) \\
&:= 5^5 + (((5 + 5) \times (555 + 5)) + 5/5) \\
&:= ((6 + 6)/6) \times ((66 \times 66 + 6/6) + 6) \\
&:= 7 + (((7/7 + 7) \times (77 \times (7 + 7) + (77/7))) + 7) \\
&:= (88 + 88)/8 + (8 \times (8 \times (8 + 8) + 8)) \\
&:= 9 \times 9 \times (99 + 9) - ((99 + 99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8727 &:= 1 + (1 + (1 + (1 + (11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)))))) \\
&:= 22/2 + (2 \times ((2^{2+2+2} + 2)^2 + 2)) \\
&:= 3 + ((3 \times (3 \times ((3^3 \times (33 + 3)) - 3))) + 3) \\
&:= 4 + (((4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) - 4/4) + 4) \\
&:= 5 + (((5 - 5/5 + 5) + 5) \times (5^5 - 5 - 5)/5) \\
&:= 6 + (((6 + 6) \times 666) + ((6 \times 6 / (6 + 6))^6)) \\
&:= 7 + ((77/7 - 7) \times (((7 + 7 + 7)/7)^7 - 7)) \\
&:= 8 + (((8 \times (8 \times (8 \times (8 + 8) + 8))) - 8/8) + 8) + 8 \\
&:= 9 \times 9 \times (99 + 9) - ((99 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8728 &:= 11 + ((11 + (((11 \times (1 + 11))^{1+1}) - 1)) / (1 + 1)) \\
&:= 2 \times ((2^{2+2+2} + 2)^2 + 2 \times (2 + 2)) \\
&:= 3^{3+3} + (((33/3 + 3 \times 3)^3) - 3/3) \\
&:= 4 + ((4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) + 4) \\
&:= 5 + (((5 + 5) \times (555 + 5)) - ((5 + 5)/5)) + 5^5 \\
&:= 6 + (66 \times (66 + 66) + ((66 - 6)/6)) \\
&:= 7 + (((7 + 7) \times (7 \times 77 + 77 + 7)) - 7/7) \\
&:= 8 + (((8 \times (8 \times (8 \times (8 + 8) + 8))) + 8) + 8) \\
&:= 9 \times 9 \times (99 + 9) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8729 &:= 11 + ((1 + (11 + ((11 \times (1 + 11))^{1+1}))) / (1 + 1)) \\
&:= ((2/2 + 2)^2 \times (2 \times 22^2 + 2)) - 2/2 \\
&:= 3^{3+3} + ((33/3 + 3 \times 3)^3) \\
&:= (44 - 4/4) \times (((44 - 4^4)/4) + 4^4) \\
&:= 5 + (((5 + 5) \times (555 + 5)) - 5/5) + 5^5 \\
&:= 6 + (66 \times (66 + 66) + (66/6)) \\
&:= 7 + ((7 + 7) \times (7 \times 77 + 77 + 7)) \\
&:= 8 + ((8/8 + 8) \times ((88 \times 88 + 8)/8)) \\
&:= 9 \times 9 \times (99 + 9) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8730 &:= (1 + 1) \times ((11 - 1 - 1) \times (1 + ((11 + 11)^{1+1}))) \\
&:= (2/2 + 2)^2 \times (2 \times 22^2 + 2) \\
&:= 3 \times ((3 \times ((3^3 \times (33 + 3)) - 3)) + 3) \\
&:= (44 + 4/4) \times (((4 - 4^4) + 4)/4 + 4^4) \\
&:= 5 + (((5 + 5) \times (555 + 5)) + 5^5) \\
&:= 6 + ((66 \times (66 + 66) + 6) + 6) \\
&:= 7 + (((7 + 7) \times (7 \times 77 + 77 + 7)) + 7/7) \\
&:= (8/8 + 8) \times (88 \times 88 + 8 + 8)/8 \\
&:= 9 \times 9 \times (99 + 9) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8731 &:= 1 + ((1 + 1) \times ((11 - 1 - 1) \times (1 + ((11 + 11)^{1+1})))) \\
&:= 2/2 + ((2/2 + 2)^2 \times (2 \times 22^2 + 2)) \\
&:= 3/3 + (3 \times ((3 \times ((3^3 \times (33 + 3)) - 3)) + 3)) \\
&:= 44/4 + (4 \times ((4 + 4) \times (4 \times 4 + 4^4) + 4)) \\
&:= ((5^5 - 5)/5 \times ((5 - 5/5 + 5) + 5)) - 5 \\
&:= 6 + (((66 \times (66 + 66) + 6/6) + 6) + 6) \\
&:= 7 \times 77 + (((7 + 7)/7)^{7-7/7+7}) \\
&:= 8 + (((8 \times (8 \times (8 \times (8 + 8) + 8))) + (88/8)) + 8) \\
&:= 9/9 + (9 \times 9 \times (99 + 9) - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8732 &:= (1 + 1) \times (1 + ((11 - 1 - 1) \times (1 + ((11 + 11)^{1+1})))) \\
&:= (2 \times 2 \times (22 + 2))^2 - 22^2 \\
&:= 3 + (((33/3 + 3 \times 3)^3) + 3^{3+3}) \\
&:= 4 \times (((4 - 4/4)^{4+4-4/4}) - 4) \\
&:= 5^5 + ((5 - 5/5 + 5) \times (5^5 - 5 - 5)/5) \\
&:= 6 + (((6 + 6)/6) \times ((66 \times 66 + 6/6) + 6)) \\
&:= (777/7 + 7) \times (77 - ((7 + 7 + 7)/7)) \\
&:= 8 + (((8 \times (8 \times (8 \times (8 + 8) + 8))) + ((88 + 8)/8)) + 8) \\
&:= (9 + 9)/9 + (9 \times 9 \times (99 + 9) - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8733 &:= 11 + (11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1)) - 1) \\
&:= 22 + ((2 \times (2^{2+2+2} + 2)^2) - 2/2) \\
&:= ((3/3 + 3) \times (3 \times 3^{3+3} - 3)) - 3 \\
&:= 4/4 + (4 \times (((4 - 4/4)^{4+4-4/4}) - 4)) \\
&:= 55 + ((5555 - ((5 + 5)/5)) + 5^5) \\
&:= ((66 - 6/6) + 6) \times ((666/6 + 6) + 6) \\
&:= 77/7 + ((7 + 7) \times (7 \times 77 + 77 + 7)) \\
&:= 8 + (8888 - ((88/8 + 88) + 8 \times 8)) \\
&:= 9 + ((99 + 9)/9 \times (9 \times 9 \times 9 - ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8734 &:= 11 + (11 + (((11 \times (1 + 11))^{1+1}) / (1 + 1))) \\
&:= 22 + (2 \times (2^{2+2+2} + 2)^2) \\
&:= ((3 \times 3 + 3) \times 3^{3+3}) - (33/3 + 3) \\
&:= ((4 + 4) \times ((4 \times (4 \times 4 + 4^4)) + 4)) - (4 + 4)/4 \\
&:= 55 + ((5555 - 5/5) + 5^5) \\
&:= 66/6 \times (66 \times (6 + 6) + ((6 + 6)/6)) \\
&:= 77/7 \times (((77 - 7)/7) + 777 + 7) \\
&:= 88/8 \times (((8 + 8)/8) + 8 \times 88 + 88) \\
&:= 99/9 \times (((9 + 9)/9) - 99) + 9 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8735 &:= ((1 + 11) \times ((11 - 1 - 1)^{1+1+1} - 1)) - 1 \\
&:= 22 + ((2 \times (2^{2+2+2} + 2)^2) + 2/2) \\
&:= ((3/3 + 3) \times (3 \times 3^{3+3} - 3)) - 3/3 \\
&:= ((4 + 4) \times ((4 \times (4 \times 4 + 4^4)) + 4)) - 4/4 \\
&:= 55 + (5555 + 5^5) \\
&:= 66666/6 - 6 \times 6 \times 66 \\
&:= 77 + ((7/7 + 77) \times 777/7) \\
&:= 8888 - ((8 \times 8 + 88) + 8/8) \\
&:= 9 \times 999 - (((9 + 9)/9)^{9-9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8736 &:= (1 + 11) \times ((11 - 1 - 1)^{1+1+1} - 1) \\
&:= 2 + ((2 \times (2^{2+2+2} + 2)^2) + 22) \\
&:= (3/3 + 3) \times (3 \times 3^{3+3} - 3) \\
&:= (4 + 4) \times ((4 \times (4 \times 4 + 4^4)) + 4) \\
&:= (5^5 - 5)/5 \times ((5 - 5/5 + 5) + 5) \\
&:= (6/6 + 6 + 6) \times (666 + 6) \\
&:= (77 + 7) \times (777/7 - 7) \\
&:= 8888 - (8 \times 8 + 88) \\
&:= (99 + 9)/9 \times (9 \times 9 \times 9 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8737 &:= 1 + ((1 + 11) \times ((11 - 1 - 1)^{1+1+1} - 1)) \\
&:= ((2^{2+2} + 2) \times (22^2 + 2)) - 22/2 \\
&:= ((3 \times 3 + 3) \times 3^{3+3}) - 33/3 \\
&:= 4/4 + ((4 + 4) \times ((4 \times (4 \times 4 + 4^4)) + 4)) \\
&:= 55 + ((5555 + ((5 + 5)/5)) + 5^5) \\
&:= 6/6 + ((6/6 + 6 + 6) \times (666 + 6)) \\
&:= 7/7 + ((7 + 7) \times (777/7 - 7)) \\
&:= 8/8 + (8888 - (8 \times 8 + 88)) \\
&:= 9 \times 9 \times (99 + 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8738 &:= 1 + (1 + ((1 + 11) \times ((11 - 1 - 1)^{1+1+1} - 1))) \\
&:= 22 + (2 \times ((2^{2+2+2} + 2)^2 + 2)) \\
&:= ((3 - 33)/3) + ((3 \times 3 + 3) \times 3^{3+3}) \\
&:= (4/4 + 4^4) \times ((4 - 44)/4 + 44) \\
&:= (((55 + 5)/5) + 5) \times (5^5 - 555)/5 \\
&:= (6 + 6)/6 + ((6/6 + 6 + 6) \times (666 + 6)) \\
&:= 7 + (((7 + 7)/7)^{7-7/7+7}) + 7 \times 77 \\
&:= (8/8 + 8 + 8) \times (8 \times 8 \times 8 + (8 + 8)/8) \\
&:= 9 \times 9 \times (99 + 9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8739 &:= 1 + (1 + (1 + ((1 + 11) \times ((11 - 1 - 1)^{1+1+1} - 1)))) \\
&:= (2/2 + 2)^2 \times ((2 \times 22^2 + 2/2) + 2) \\
&:= 3 \times ((3 \times (3^3 \times (33 + 3))) - 3) \\
&:= 4 + (((4 + 4) \times ((4 \times (4 \times 4 + 4^4)) + 4)) - 4/4) \\
&:= 5 \times (5^5 - 5 \times 5 \times 55) - 55/5 \\
&:= ((66/6) \times (((6 \times 6/(6 + 6))^6) + 66)) - 6 \\
&:= 7 + ((777/7 + 7) \times (77 - ((7 + 7 + 7)/7))) \\
&:= (8/8 + 8) \times ((8 \times (8 \times (8 + 8) - 8)) + (88/8)) \\
&:= 9 \times 9 \times (99 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8740 &:= (1 + 1) \times ((1 + 1) \times (((1 + 1 + 11)^{1+1+1}) - (1 + 11))) \\
&:= (2 - 22) \times ((2 - ((22 - 2/2)^2)) + 2) \\
&:= 3 + (((3 \times 3 + 3) \times 3^{3+3}) - 33/3) \\
&:= 4 + ((4 + 4) \times ((4 \times (4 \times 4 + 4^4)) + 4)) \\
&:= 5 + ((5555 + 55) + 5^5) \\
&:= 6 + ((66/6) \times (66 \times (6 + 6) + ((6 + 6)/6))) \\
&:= (7/7 - 77) \times (7 - (777 + 77)/7) \\
&:= 8888 + (888/(((8 + 8)/8) - 8)) \\
&:= 9/9 + (9 \times 9 \times (99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8741 &:= 1 + ((1 + 1) \times ((1 + 1) \times (((1 + 1 + 11)^{1+1+1}) - (1 + 11)))) \\
&:= 2 + ((2/2 + 2)^2 \times ((2 \times 22^2 + 2/2) + 2)) \\
&:= ((3 \times 3 + 3) \times 3^{3+3}) - (3/3 + 3 + 3) \\
&:= 4 + (((4 + 4) \times ((4 \times (4 \times 4 + 4^4)) + 4)) + 4/4) \\
&:= 5 + ((5^5 - 5)/5 \times ((5 - 5/5 + 5) + 5)) \\
&:= ((6 + 6) \times ((6 \times 6/(6 + 6))^6) - 6/6 - 6) \\
&:= ((77/7 - 7) \times ((7 + 7 + 7)/7)^7) - 7 \\
&:= 8888 - ((8 \times (8 + 8) + (88/8)) + 8) \\
&:= (9 + 9)/9 + (9 \times 9 \times (99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8742 &:= (1 + 1) \times ((1 + 1 + 1) \times (1 + ((1 + 1 + 11) \times (1 + 11)))) \\
&:= 2 + ((2 - 22) \times ((2 - ((22 - 2/2)^2)) + 2)) \\
&:= ((3 \times 3 + 3) \times 3^{3+3}) - 3 - 3 \\
&:= 4 + ((4/4 + 4^4) \times ((4 - 44)/4 + 44)) \\
&:= 5 + (((5^5 - 5)/5) \times ((5 - 5/5 + 5) + 5)) + 5/5 \\
&:= ((6 + 6) \times ((6 \times 6/(6 + 6))^6) - 6) \\
&:= 7 + (((7/7 + 77) \times 777/7) + 77) \\
&:= 8 + (88/8 \times (((8 + 8)/8) + 8 \times 88) + 88) \\
&:= ((9 + 9 + 9)/9) + (9 \times 9 \times (99 + 9) - 9)
\end{aligned}$$

- 8743 := $((1+1) \times ((1+1) \times (((1+1+11)^{1+1+1}) - 11))) - 1$
:= $(22 \times ((22-2)^2 - 2)) - (22/2 + 2)$
:= $3/3 + (((3 \times 3 + 3) \times 3^{3+3}) - (3+3))$
:= $4 \times ((4-4/4)^{4+4-4/4}) - 4/4 - 4$
:= $((5+5)/5 + 5) \times ((5^5 - 5 + 5^5)/5)$
:= $6/6 + (((6+6) \times ((6 \times 6/(6+6))^6)) - 6)$
:= $7 + ((77+7) \times (777/7 - 7))$
:= $8 + (8888 - ((8 \times 8 + 88) + 8/8))$
:= $(9-99)/(9+9) + 9 \times 9 \times (99+9)$
- 8744 := $(1+1) \times ((1+1) \times (((1+1+11)^{1+1+1}) - 11))$
:= $2 \times ((2^{2+2+2} + 2)^2 + 2^{2+2})$
:= $(3/3 + 3) \times (3 \times 3^{3+3} - 3/3)$
:= $4 \times ((4-4/4)^{4+4-4/4}) - 4$
:= $5 \times (5^5 - 5 \times 5 \times 55) - (5/5 + 5)$
:= $(6+6)/6 + (((6+6) \times ((6 \times 6/(6+6))^6)) - 6)$
:= $7 + (((77+7) \times (777/7 - 7)) + 7/7)$
:= $8 + (8888 - (8 \times 8 + 88))$
:= $(9-9/9) \times (9999/9 - (9+9))$
- 8745 := $11 \times (11 + ((1 + (1 + 1 + 1)^{1+1+1})^{1+1}))$
:= $(22 \times ((22-2)^2 - 2)) - 22/2$
:= $((3 \times 3 + 3) \times 3^{3+3}) - 3$
:= $4/4 + ((4 \times ((4-4/4)^{4+4-4/4}) - 4)$
:= $5 \times (5^5 - 5 \times 5 \times 55) - 5$
:= $66/6 \times (((6 \times 6/(6+6))^6) + 66)$
:= $77/7 \times ((77/7 + 777) + 7)$
:= $8 + ((8888 - (8 \times 8 + 88)) + 8/8)$
:= $9 \times 9 \times (99+9) - (9+9+9)/9$
- 8746 := $((1+11) \times (11-1-1)^{1+1+1}) - 1 - 1$
:= $((2^{2+2} + 2) \times (22^2 + 2)) - 2$
:= $3/3 + (((3 \times 3 + 3) \times 3^{3+3}) - 3)$
:= $((4/4 + 4)^4 \times ((44-4)/4 + 4)) - 4$
:= $5/5 + (5 \times (5^5 - 5 \times 5 \times 55) - 5)$
:= $((6+6) \times ((6 \times 6/(6+6))^6)) - (6+6)/6$
:= $7/7 + (77/7 \times ((77/7 + 777) + 7))$
:= $8 + ((8/8 + 8 + 8) \times (8 \times 8 \times 8 + (8+8)/8))$
:= $9 \times 9 \times (99+9) - (9+9)/9$
- 8747 := $((1+11) \times (11-1-1)^{1+1+1}) - 1$
:= $((2^{2+2} + 2) \times (22^2 + 2)) - 2/2$
:= $((3 \times 3 + 3) \times 3^{3+3}) - 3/3$
:= $4 \times ((4-4/4)^{4+4-4/4}) - 4/4$
:= $555 + ((5+5)/5)^{(55+5+5)/5}$
:= $((6+6) \times ((6 \times 6/(6+6))^6)) - 6/6$
:= $77/7 + ((77+7) \times (777/7 - 7))$
:= $88/8 + (8888 - (8 \times 8 + 88))$
:= $9 \times 9 \times (99+9) - 9/9$
- 8748 := $(1+11) \times (11-1-1)^{1+1+1}$
:= $(2^{2+2} + 2) \times (22^2 + 2)$
:= $(3 \times 3 + 3) \times 3^{3+3}$
:= $4 \times ((4-4/4)^{4+4-4/4})$
:= $(55/5 + 5 \times 5) \times ((5 - (5+5)/5)^5)$
:= $(6+6) \times ((6 \times 6/(6+6))^6)$
:= $(77/7 - 7) \times ((7+7+7)/7)^7$
:= $8 \times 8/(8+8) \times ((88/8 - 8)^{8-8/8})$
:= $9 \times 9 \times (99+9)$
- 8749 := $1 + ((1+11) \times (11-1-1)^{1+1+1})$
:= $2/2 + ((2^{2+2} + 2) \times (22^2 + 2))$
:= $3/3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3)$
:= $4/4 + (4 \times ((4-4/4)^{4+4-4/4}))$
:= $5 \times (5^5 - 5 \times 5 \times 55) - 5/5$
:= $6/6 + ((6+6) \times ((6 \times 6/(6+6))^6))$
:= $7/7 + ((77/7 - 7) \times ((7+7+7)/7)^7)$
:= $8888 - (8 \times (8+8) + (88/8))$
:= $9/9 + 9 \times 9 \times (99+9)$
- 8750 := $1 + (1 + ((1+11) \times (11-1-1)^{1+1+1}))$
:= $2 + ((2^{2+2} + 2) \times (22^2 + 2))$
:= $3 + (((3 \times 3 + 3) \times 3^{3+3}) - 3/3)$
:= $(4/4 + 4)^4 \times ((44-4)/4 + 4)$
:= $5 \times (5^5 - 5 \times 5 \times 55)$
:= $(6+6)/6 + ((6+6) \times ((6 \times 6/(6+6))^6))$
:= $(77-7) \times (777/7 + 7 + 7)$
:= $(8-88)/8 + (8888 - 8 \times (8+8))$
:= $(9+9)/9 + 9 \times 9 \times (99+9)$
- 8751 := $1 + (1 + (1 + ((1+11) \times (11-1-1)^{1+1+1})))$
:= $2 + (((2^{2+2} + 2) \times (22^2 + 2)) + 2/2)$
:= $3 + ((3 \times 3 + 3) \times 3^{3+3})$
:= $(4 \times ((44 \times 44 - 4) + 4^4)) - 4/4$
:= $5/5 + 5 \times (5^5 - 5 \times 5 \times 55)$
:= $6 + ((66/6) \times (((6 \times 6/(6+6))^6) + 66))$
:= $7/7 + ((77-7) \times (777/7 + 7 + 7))$
:= $8888 - ((8 \times (8+8) + 8/8) + 8)$
:= $((9+9+9)/9) + 9 \times 9 \times (99+9)$
- 8752 := $1 + (1 + (1 + (1 + ((1+11) \times (11-1-1)^{1+1+1}))))$
:= $(22 \times ((22-2)^2 - 2)) - 2 - 2$
:= $3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3/3)$
:= $4 \times ((44 \times 44 - 4) + 4^4)$
:= $(5+5)/5 + 5 \times (5^5 - 5 \times 5 \times 55)$
:= $6 + (((6+6) \times ((6 \times 6/(6+6))^6)) - ((6+6)/6))$
:= $7 + (77/7 \times ((77/7 + 777) + 7))$
:= $8888 - (8 \times (8+8) + 8)$
:= $9 \times 9 \times (99+9) + ((9 \times 9 - 9)/(9+9))$
- 8753 := $((1+1)^{1+1+1+1}) + ((11+1111)/(1+1))$
:= $(22 \times ((22-2)^2 - 2)) - 2/2 - 2$
:= $3 + (((3 \times 3 + 3) \times 3^{3+3}) - 3/3) + 3$
:= $4/4 + (4 \times ((44 \times 44 - 4) + 4^4))$
:= $5 + ((55/5 + 5 \times 5) \times ((5 - (5+5)/5)^5))$
:= $6 + (((6+6) \times ((6 \times 6/(6+6))^6)) - 6/6)$
:= $7 \times 7 + (((7+7)/7)^7 \times (77 - ((7+7)/7 + 7)))$
:= $8/8 + (8888 - (8 \times (8+8) + 8))$
:= $9 \times 9 \times (99+9) + ((9 \times 9 + 9)/(9+9))$
- 8754 := $(1+1) \times ((11 \times (((1+1) \times (11-1))^{1+1} - (1+1))) - 1)$
:= $(22 \times ((22-2)^2 - 2)) - 2$
:= $3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3)$
:= $4 + ((4/4 + 4)^4 \times ((44-4)/4 + 4))$
:= $5 + (5 \times (5^5 - 5 \times 5 \times 55) - 5/5)$
:= $6 + ((6+6) \times ((6 \times 6/(6+6))^6))$
:= $7 + (((77+7) \times (777/7 - 7)) + (77/7))$
:= $(8+8)/8 + (8888 - (8 \times (8+8) + 8))$
:= $9 + (9 \times 9 \times (99+9) - ((9+9+9)/9))$
- 8755 := $((1+1) \times (11 \times (((1+1) \times (11-1))^{1+1} - (1+1)))) - 1$
:= $(22 \times ((22-2)^2 - 2)) - 2/2$
:= $3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3/3) + 3$
:= $4 + ((4 \times ((44 \times 44 - 4) + 4^4)) - 4/4)$
:= $5 + 5 \times (5^5 - 5 \times 5 \times 55)$
:= $6 + (((6+6) \times ((6 \times 6/(6+6))^6)) + 6/6)$
:= $7 + ((77/7 - 7) \times ((7+7+7)/7)^7)$
:= $8888 + ((8/8 - 8) \times (88/8 + 8))$
:= $9 + (9 \times 9 \times (99+9) - ((9+9)/9))$
- 8756 := $(1+1) \times (11 \times (((1+1) \times (11-1))^{1+1} - (1+1)))$
:= $22 \times ((22-2)^2 - 2)$
:= $3 \times 3 + (((3 \times 3 + 3) \times 3^{3+3}) - 3/3)$
:= $4 + (4 \times ((44 \times 44 - 4) + 4^4))$
:= $5 + (5 \times (5^5 - 5 \times 5 \times 55) + 5/5)$
:= $6 + (((6+6) \times ((6 \times 6/(6+6))^6)) + ((6+6)/6))$
:= $7 \times (7+7) + ((7/7 + 77) \times 777/7)$
:= $8888 - ((88/((8+8)/8)) + 88)$
:= $9 + (9 \times 9 \times (99+9) - 9/9)$
- 8757 := $1 + ((1+1) \times (11 \times (((1+1) \times (11-1))^{1+1} - (1+1))))$
:= $2/2 + (22 \times ((22-2)^2 - 2))$
:= $3 \times ((3 \times (3^3 \times (33+3))) + 3)$
:= $(4 \times (44 \times 44 + 4^4)) - 44/4$
:= $((5+5)/5 + 5) \times ((5^5 + 5^5 + 5)/5)$
:= $6 + (((66/6) \times (((6 \times 6/(6+6))^6) + 66)) + 6)$
:= $7777 + (7+7) \times (77-7)$
:= $(8 \times 8 - 8/8) \times (8 \times (8+8) + (88/8))$
:= $9 + 9 \times 9 \times (99+9)$

$$\begin{aligned}
\blacktriangleright 8758 &:= 11 + (((1+11) \times (11-1-1)^{1+1+1}) - 1) \\
&:= 2 + (22 \times ((22-2)^2 - 2)) \\
&:= 3 \times 3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3/3) \\
&:= 4 + (((4/4 + 4)^4 \times ((44-4)/4 + 4)) + 4) \\
&:= (((5+5)/5)^5 \times (5 \times 55 - 5/5)) - 5 - 5 \\
&:= ((66-6)/6) + ((6+6) \times ((6 \times 6/(6+6))^6)) \\
&:= 7/7 + ((7+7) \times (77-7) + 7777) \\
&:= 8888 - (8 \times (8+8) + ((8+8)/8)) \\
&:= 9 + (9 \times 9 \times (99+9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8759 &:= 11 + ((1+11) \times (11-1-1)^{1+1+1}) \\
&:= 2 + ((22 \times ((22-2)^2 - 2)) + 2/2) \\
&:= 33/3 + ((3 \times 3 + 3) \times 3^{3+3}) \\
&:= 44/4 + (4 \times ((4-4/4)^{4+4-4/4})) \\
&:= 5^5 + ((5-5/5+5) \times (5^5 + 5)/5) \\
&:= 66/6 + ((6+6) \times ((6 \times 6/(6+6))^6)) \\
&:= (7 \times (7-7 \times 7 \times 7)) + 77777/7 \\
&:= 8888 - (8 \times (8+8) + 8/8) \\
&:= 99/9 + 9 \times 9 \times (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8760 &:= (1+11) \times (1 + (11-1-1)^{1+1+1}) \\
&:= 2 + ((22 \times ((22-2)^2 - 2)) + 2) \\
&:= (3/3 + 3) \times (3 \times 3^{3+3} + 3) \\
&:= (4+4) \times (4444/4 - 4 \times 4) \\
&:= 5 + (5 \times (5^5 - 5 \times 5 \times 55) + 5) \\
&:= 6 + (((6+6) \times ((6 \times 6/(6+6))^6)) + 6) \\
&:= (77/7 + 7 \times 7) \times (7 \times (7+7+7) - 7/7) \\
&:= 8888 - 8 \times (8+8) \\
&:= (99+9)/9 + 9 \times 9 \times (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8761 &:= 1 + ((1+11) \times (1 + (11-1-1)^{1+1+1})) \\
&:= 2 + (((22 \times ((22-2)^2 - 2)) + 2/2) + 2) \\
&:= 3/3 + ((3/3 + 3) \times (3 \times 3^{3+3} + 3)) \\
&:= 4 + ((4 \times (44 \times 44 + 4^4)) - 44/4) \\
&:= 55/5 + 5 \times (5^5 - 5 \times 5 \times 55) \\
&:= 6 + (((6+6) \times ((6 \times 6/(6+6))^6)) + 6/6 + 6) \\
&:= 7 \times 7 + ((7/7 + 7) \times (77 \times (7+7) + (77/7))) \\
&:= 8/8 + (8888 - 8 \times (8+8)) \\
&:= 9 \times 9 \times (99+9) + ((99+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8762 &:= 1 + (1 + ((1+11) \times (1 + (11-1-1)^{1+1+1}))) \\
&:= 2 + (((22 \times ((22-2)^2 - 2)) + 2) + 2) \\
&:= 3 + (((3 \times 3 + 3) \times 3^{3+3}) + 33/3) \\
&:= (4+4)/4 \times (((4-4^4)/4) + 4444) \\
&:= 5 + (((5+5)/5 + 5) \times ((5^5 + 5^5 + 5)/5)) \\
&:= (6/6 + 6 + 6) \times ((666 + (6+6)/6) + 6) \\
&:= (777/7 \times ((7+7)/7 + 77)) - 7 \\
&:= (8+8)/8 + (8888 - 8 \times (8+8)) \\
&:= 9 + (9 \times 9 \times (99+9) + ((9 \times 9 + 9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8763 &:= 1 + (1 + (1 + ((1+11) \times (1 + (11-1-1)^{1+1+1})))) \\
&:= (2 \times ((2 \times 2222) - 2)) - (22/2)^2 \\
&:= 3 + ((3/3 + 3) \times (3 \times 3^{3+3} + 3)) \\
&:= (4 \times (44 \times 44 + 4^4)) - 4/4 - 4 \\
&:= (((5+5)/5)^5 \times (5 \times 55 - 5/5)) - 5 \\
&:= (666/6 \times (66 + 6/6 + 6 + 6)) - 6 \\
&:= (77 - (7/7 + 7)) \times (7/7 + 77 + 7 \times 7) \\
&:= 88/8 + (8888 - (8 \times (8+8) + 8)) \\
&:= 9 + ((9 \times 9 \times (99+9) - ((9+9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8764 &:= (1+1) \times ((1+1) \times ((1+1)^{11} + (11 \times (1+1+11)))) \\
&:= 2 \times (2+2) + (22 \times ((22-2)^2 - 2)) \\
&:= (3/3 + 3) \times ((3 \times 3^{3+3} + 3/3) + 3) \\
&:= (4 \times (44 \times 44 + 4^4)) - 4 \\
&:= (5^5 + 5)/5 \times ((5-5/5+5) + 5) \\
&:= 6 + (((6+6) \times ((6 \times 6/(6+6))^6)) + ((66-6)/6)) \\
&:= (7 \times ((7+7) \times (77+7) + 77)) - 7 \\
&:= 8888 + (8 \times 8/(8+8) - 8 \times (8+8)) \\
&:= 9 + ((9 \times 9 \times (99+9) - ((9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8765 &:= (11 \times 1111) - ((1+1) \times ((1+11)^{1+1+1})) \\
&:= 22/2 + ((22 \times ((22-2)^2 - 2)) - 2) \\
&:= 3 + (((3 \times 3 + 3) \times 3^{3+3}) + 33/3 + 3) \\
&:= 4/4 + ((4 \times (44 \times 44 + 4^4)) - 4) \\
&:= 5 + ((5 \times (5^5 - 5 \times 5 \times 55) + 5) + 5) \\
&:= 6 + (((6+6) \times ((6 \times 6/(6+6))^6)) + (66/6)) \\
&:= 7/7 + ((7 \times ((7+7) \times (77+7) + 77)) - 7) \\
&:= 8 + ((8 \times 8 - 8/8) \times (8 \times (8+8) + (88/8))) \\
&:= 9 + ((9 \times 9 \times (99+9) - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8766 &:= (1+1) \times (((1+1) \times ((1+1+11)^{1+1+1})) - 11) \\
&:= ((22+2)^2) + ((2^{22/2+2}) - 2) \\
&:= 3 \times (((3 \times (3^3 \times (33+3))) + 3) + 3) \\
&:= (4 \times (44 \times 44 + 4^4)) - (4+4)/4 \\
&:= 5 + (5 \times (5^5 - 5 \times 5 \times 55) + (55/5)) \\
&:= 6 + (((6+6) \times ((6 \times 6/(6+6))^6)) + 6) + 6) \\
&:= 7 + (77777/7 + (7 \times (7-7 \times 7 \times 7))) \\
&:= 8888 - ((888+88)/8) \\
&:= 9 + (9 \times 9 \times (99+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8767 &:= 11 \times (((11 \times (1 + (1+11)^{1+1+1})) - 1)/(1+1)) \\
&:= 22/2 + (22 \times ((22-2)^2 - 2)) \\
&:= 3 + ((3/3 + 3) \times ((3 \times 3^{3+3} + 3/3) + 3)) \\
&:= (4 \times (44 \times 44 + 4^4)) - 4/4 \\
&:= (((5+5)/5)^5 \times (5 \times 55 - 5/5)) - 5/5 \\
&:= 66/6 \times ((66 \times (6+6) - 6/6) + 6) \\
&:= 77/7 \times (((777-7/7) + 7) + 7) + 7) \\
&:= (8 \times ((8 \times (8 \times (8+8) + 8)) + 8)) - 8/8 \\
&:= 9 + ((9 \times 9 \times (99+9) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8768 &:= (111 \times ((11-1-1)^{1+1} - (1+1))) - 1 \\
&:= ((22+2)^2) + (2^{22/2+2}) \\
&:= 3 \times 3 + (((3 \times 3 + 3) \times 3^{3+3}) + 33/3) \\
&:= 4 \times (44 \times 44 + 4^4) \\
&:= ((5+5)/5)^5 \times (5 \times 55 - 5/5) \\
&:= ((6+6)/6)^6 \times ((66-6/6+66) + 6) \\
&:= (7/7 + 7) \times ((77 \times (7+7) + (77/7)) + 7) \\
&:= 8 \times ((8 \times (8 \times (8+8) + 8)) + 8) \\
&:= 9 + (9 \times 9 \times (99+9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8769 &:= 111 \times ((11-1-1)^{1+1} - (1+1)) \\
&:= 222/2 \times ((2/2 + 2)^{2+2} - 2) \\
&:= 3 + (((3 \times 3 + 3) \times 3^{3+3}) + (3 \times (3+3))) \\
&:= 4/4 + (4 \times (44 \times 44 + 4^4)) \\
&:= 5 + ((5^5 + 5)/5 \times ((5-5/5+5) + 5)) \\
&:= 666/6 \times (66 + 6/6 + 6 + 6) \\
&:= 777/7 \times ((7+7)/7 + 77) \\
&:= 8/8 + (8 \times ((8 \times (8 \times (8+8) + 8)) + 8)) \\
&:= 999/9 \times (9 \times 9 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8770 &:= 1 + (111 \times ((11-1-1)^{1+1} - (1+1))) \\
&:= 2 + ((2^{22/2+2}) + ((22+2)^2)) \\
&:= 33 + (((3 \times 3 + 3) \times 3^{3+3}) - 33/3) \\
&:= (4+4)/4 + (4 \times (44 \times 44 + 4^4)) \\
&:= (5 \times ((5^5 - 5 \times 5 \times 55) + 5)) - 5 \\
&:= ((6+6)/6)^6 + (66 \times (66+66) - 6) \\
&:= (7 \times ((7+7) \times (77+7) + 77)) - 7/7 \\
&:= (8+8)/8 + (8 \times ((8 \times (8 \times (8+8) + 8)) + 8)) \\
&:= ((99+99)/9) + 9 \times 9 \times (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8771 &:= 1 + (1 + (111 \times ((11-1-1)^{1+1} - (1+1)))) \\
&:= 2 + (222/2 \times ((2/2 + 2)^{2+2} - 2)) \\
&:= 3^3 + ((3/3 + 3) \times (3 \times 3^{3+3} - 3/3)) \\
&:= 4 + ((4 \times (44 \times 44 + 4^4)) - 4/4) \\
&:= 5/5 + ((5 \times ((5^5 - 5 \times 5 \times 55) + 5)) - 5) \\
&:= 66 + (66 \times (66+66) - (6/6+6)) \\
&:= 7 \times ((7+7) \times (77+7) + 77) \\
&:= 88/8 + (8888 - 8 \times (8+8)) \\
&:= 9 \times 9 + (99 \times 99 - 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8772 &:= (1+11) \times (1 + (1 + (11-1-1)^{1+1+1})) \\
&:= 2 \times ((2 \times ((2 \times (22+2))^2) - 222) \\
&:= 3^3 + (((3 \times 3 + 3) \times 3^{3+3}) - 3) \\
&:= 4 + (4 \times (44 \times 44 + 4^4)) \\
&:= ((55+5)/5) \times ((555+5^5)/5 - 5) \\
&:= 66 + (66 \times (66+66) - 6) \\
&:= 7/7 + (7 \times ((7+7) \times (77+7) + 77)) \\
&:= ((88+8)/8) + (8888 - 8 \times (8+8)) \\
&:= (99+9)/9 \times (9 \times 9 \times 9 + ((9+9)/9))
\end{aligned}$$

- 8773 := $1 + ((1 + 11) \times (1 + (1 + (11 - 1 - 1)^{1+1+1})))$
:= $2 \times ((2 \times 2222) - 2) - 222/2$
:= $(3 \times 3 + 3) \times (3^{3+3} + 3) - 33/3$
:= $4 + ((4 \times (44 \times 44 + 4^4)) + 4/4)$
:= $5 + (((5 + 5)/5)^5 \times (5 \times 55 - 5/5))$
:= $(6 + 6) \times (666 + 66) - 66/6$
:= $(7 + 7)/7 + (7 \times ((7 + 7) \times (77 + 7) + 77))$
:= $8888 - (((88/8 + 88) + 8) + 8)$
:= $9 + (((9 \times 9 \times (99 + 9) - (9 + 9)/9) + 9) + 9)$
- 8774 := $1 + (1 + ((1 + 11) \times (1 + (1 + (11 - 1 - 1)^{1+1+1}))))$
:= $22 \times (22 - 2)^2 - 22 - 2 - 2$
:= $3^3 + (((3 \times 3 + 3) \times 3^{3+3}) - 3/3)$
:= $4 + ((4 \times (44 \times 44 + 4^4)) + (4 + 4)/4)$
:= $(5 \times ((5^5 - 5 \times 5 \times 55) + 5)) - 5/5$
:= $(6 - 66)/6 + (6 + 6) \times (666 + 66)$
:= $7 + (77/7 \times (((777 - 7/7) + 7) + 7) + 7)$
:= $8 + (8888 - (888 + 88)/8)$
:= $(9/9 + 9 \times 9) \times ((99 - 9/9) + 9)$
- 8775 := $(1 + 1 + 11) \times (((1 + 1) \times (1 + 1 + 11))^{1+1} - 1)$
:= $(22/2 + 2) \times ((22 + 2 + 2)^2 - 2/2)$
:= $3 \times (3 \times ((3^3 \times (33 + 3)) + 3))$
:= $4 + (((4 \times (44 \times 44 + 4^4)) - 4/4) + 4)$
:= $5 \times ((5^5 - 5 \times 5 \times 55) + 5)$
:= $6 + (666/6 \times (66 + 6/6 + 6 + 6))$
:= $(7 - 7/7 + 7) \times ((7 \times 7 \times (7 + 7)) - (77/7))$
:= $8 + ((8 \times ((8 \times (8 \times (8 + 8) + 8)) + 8)) - 8/8)$
:= $9 + ((9 \times 9 \times (99 + 9) + 9) + 9)$
- 8776 := $(1 + 1) \times ((11 \times ((1 + 1) \times (11 - 1))^{1+1} - 1)) - 1$
:= $22 \times (22 - 2)^2 - 22 - 2$
:= $3^3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3/3)$
:= $4 + ((4 \times (44 \times 44 + 4^4)) + 4)$
:= $5/5 + (5 \times ((5^5 - 5 \times 5 \times 55) + 5))$
:= $((6 + 6)/6)^6 + 66 \times (66 + 66)$
:= $7 + (777/7 \times ((7 + 7)/7 + 77))$
:= $8 + (8 \times ((8 \times (8 \times (8 + 8) + 8)) + 8))$
:= $9 + (((9 \times 9 \times (99 + 9) + 9/9) + 9) + 9)$
- 8777 := $(1111 \times (1 + 1)^{1+1+1}) - 111$
:= $22 \times (22 - 2)^2 - 22 - 2/2$
:= $3 + (((3 \times 3 + 3) \times 3^{3+3}) - 3/3) + 3^3$
:= $4 + (((4 \times (44 \times 44 + 4^4)) + 4/4) + 4)$
:= $(5 + 5)/5 + (5 \times ((5^5 - 5 \times 5 \times 55) + 5))$
:= $66 + (66 \times (66 + 66) - 6/6)$
:= $(77 \times (((7 + 7)/7)^7 - (7 + 7))) - 7/7$
:= $8888 - 888/8$
:= $9 + ((9 \times 9 \times (99 + 9) + (99/9)) + 9)$
- 8778 := $(1 + 1) \times (11 \times (((1 + 1) \times (11 - 1))^{1+1} - 1))$
:= $22 \times ((22 - 2)^2 - 2/2)$
:= $3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3^3)$
:= $(44 - 4)/4 + (4 \times (44 \times 44 + 4^4))$
:= $((5 - 5/5 + 5) + 5) \times (5^5 + 5 + 5)/5$
:= $66 + 66 \times (66 + 66)$
:= $77 \times (((7 + 7)/7)^7 - (7 + 7))$
:= $8888 + ((8 - 888)/8)$
:= $9 + (999/9 \times (9 \times 9 - ((9 + 9)/9)))$
- 8779 := $((11 - 1)^{1+1+1+1}) - 11 \times 111$
:= $2/2 + (22 \times ((22 - 2)^2 - 2/2))$
:= $3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3^3) + 3/3$
:= $44/4 + (4 \times (44 \times 44 + 4^4))$
:= $5 + ((5 \times ((5^5 - 5 \times 5 \times 55) + 5)) - 5/5)$
:= $66 + (66 \times (66 + 66) + 6/6)$
:= $7/7 + (77 \times (((7 + 7)/7)^7 - (7 + 7)))$
:= $88/8 + (8 \times ((8 \times (8 \times (8 + 8) + 8)) + 8))$
:= $9 + (((99 + 99)/9) + 9 \times 9 \times (99 + 9))$
- 8780 := $1 + (((11 - 1)^{1+1+1+1}) - 11 \times 111)$
:= $2 + (22 \times ((22 - 2)^2 - 2/2))$
:= $33 + (((3 \times 3 + 3) \times 3^{3+3}) - 3/3)$
:= $(4/4 + 4) \times (4 \times (444 - 4) - 4)$
:= $5 + (5 \times ((5^5 - 5 \times 5 \times 55) + 5))$
:= $66 + (66 \times (66 + 66) + ((6 + 6)/6))$
:= $(7 + 7)/7 + (77 \times (((7 + 7)/7)^7 - (7 + 7)))$
:= $((88 + 8)/8) + (8 \times ((8 \times (8 \times (8 + 8) + 8)) + 8))$
:= $(9/9 + 9) \times (9 \times 99 - ((99 + 9 + 9)/9))$
- 8781 := $1 + (1 + (((11 - 1)^{1+1+1+1}) - 11 \times 111))$
:= $2 + ((22 \times ((22 - 2)^2 - 2/2)) + 2/2)$
:= $33 + ((3 \times 3 + 3) \times 3^{3+3})$
:= $4/4 + ((4/4 + 4) \times (4 \times (444 - 4) - 4))$
:= $5 + ((5 \times ((5^5 - 5 \times 5 \times 55) + 5)) + 5/5)$
:= $(6 + 6) \times (666 + 66) - 6 \times 6/(6 + 6)$
:= $77 + (((7 + 7)/7)^7 \times (77 - ((7 + 7)/7 + 7)))$
:= $8888 - ((88/8 + 88) + 8)$
:= $9 \times 999 - (999/9 + 99)$
- 8782 := $(1 + 1) \times (((1 + 1) \times ((1 + 1 + 11)^{1+1+1}) - 1)) - 1$
:= $2 + ((22 \times ((22 - 2)^2 - 2/2)) + 2)$
:= $3/3 + (((3 \times 3 + 3) \times 3^{3+3}) + 33)$
:= $(4 \times ((44 \times 44 + 4^4) + 4)) - (4 + 4)/4$
:= $((5 + 5)/5)^5 + 5 \times (5^5 - 5 \times 5 \times 55)$
:= $(6 + 6) \times (666 + 66) - (6 + 6)/6$
:= $77/7 + (7 \times ((7 + 7) \times (77 + 7) + 77))$
:= $(8 - 88)/8 + (8888 - (88 + 8))$
:= $9 \times 999 + (((9 - 999)/9) - 99)$
- 8783 := $((1 + 1) \times ((1 + 1) \times (((1 + 1 + 11)^{1+1+1}) - 1))) - 1$
:= $2222 + (2/2 + 2)^{2 \times (2+2)}$
:= $((3 \times 3 + 3) \times (3^{3+3} + 3)) - 3/3$
:= $(4 \times ((44 \times 44 + 4^4) + 4)) - 4/4$
:= $5 + (((5 - 5/5 + 5) + 5) \times (5^5 + 5 + 5)/5)$
:= $(6 + 6) \times (666 + 66) - 6/6$
:= $7 + ((777/7 \times ((7 + 7)/7 + 77)) + 7)$
:= $8888 - (((8/8 + 88) + 8) + 8)$
:= $9 + ((9/9 + 9 \times 9) \times ((99 - 9/9) + 9))$
- 8784 := $(1 + 1) \times ((1 + 1) \times (((1 + 1 + 11)^{1+1+1}) - 1))$
:= $(2^{2+2} + 2) \times (22^2 + 2 + 2)$
:= $(3 \times 3 + 3) \times (3^{3+3} + 3)$
:= $4 \times ((44 \times 44 + 4^4) + 4)$
:= $(55/5 + 5) \times (555 - (5/5 + 5))$
:= $(6 + 6) \times (666 + 66)$
:= $7 + ((77 \times (((7 + 7)/7)^7 - (7 + 7))) - 7/7)$
:= $(8/8 + 8) \times (888 + 88)$
:= $(9 - 9/9) \times (999 + 99)$
- 8785 := $1 + ((1 + 1) \times ((1 + 1) \times (((1 + 1 + 11)^{1+1+1}) - 1)))$
:= $2 + ((2/2 + 2)^{2 \times (2+2)} + 2222)$
:= $3/3 + ((3 \times 3 + 3) \times (3^{3+3} + 3))$
:= $4/4 + (4 \times ((44 \times 44 + 4^4) + 4))$
:= $5 + ((5 \times ((5^5 - 5 \times 5 \times 55) + 5)) + 5)$
:= $6/6 + (6 + 6) \times (666 + 66)$
:= $7 + (77 \times (((7 + 7)/7)^7 - (7 + 7)))$
:= $8 + (8888 - 888/8)$
:= $9/9 + ((9 - 9/9) \times (999 + 99))$
- 8786 := $(1 + 1) \times (((1 + 1) \times ((1 + 1 + 11)^{1+1+1}) - 1))$
:= $2 + ((2^{2+2} + 2) \times (22^2 + 2 + 2))$
:= $3 + (((3 \times 3 + 3) \times (3^{3+3} + 3)) - 3/3)$
:= $(4 + 4)/4 + (4 \times ((44 \times 44 + 4^4) + 4))$
:= $5^5 + ((5 + 5) \times 555) + 555/5$
:= $(6 + 6)/6 + (6 + 6) \times (666 + 66)$
:= $7 + ((77 \times (((7 + 7)/7)^7 - (7 + 7))) + 7/7)$
:= $8 + (((8 - 888)/8) + 8888)$
:= $9 + (((9 \times 9 \times (99 + 9) + (99/9)) + 9) + 9)$
- 8787 := $((1 + 1) \times ((1 + 1) \times ((1 + 1 + 11)^{1+1+1}))) - 1$
:= $22 \times (22 - 2)^2 - (22/2 + 2)$
:= $3 + ((3 \times 3 + 3) \times (3^{3+3} + 3))$
:= $4 + ((4 \times ((44 \times 44 + 4^4) + 4)) - 4/4)$
:= $5 + (5 \times (5^5 - 5 \times 5 \times 55) + ((5 + 5)/5)^5)$
:= $(6 \times 6/(6 + 6)) + (6 + 6) \times (666 + 66)$
:= $7 + ((77 \times (((7 + 7)/7)^7 - (7 + 7))) + ((7 + 7)/7))$
:= $8888 - (8888/88)$
:= $9 + ((999/9 \times (9 \times 9 - ((9 + 9)/9))) + 9)$

- 8788 := $(1+1) \times ((1+1) \times ((1+1+11)^{1+1+1}))$
:= $2 \times (2 \times ((22/2+2)^{2/2+2}))$
:= $(3/3+3) \times (((3 \times 3+3/3)+3)^3)$
:= $4 + (4 \times ((44 \times 44 + 4^4) + 4))$
:= $(5 \times 5 + 5/5) \times ((5^5 + 5)/(5+5) + 5 \times 5)$
:= $6 + ((6+6) \times (666+66) - ((6+6)/6))$
:= $((77-7)/7) + (77 \times (((7+7)/7)^7 - (7+7)))$
:= $8888 + ((88-888)/8)$
:= $9 \times 9 \times (99+9) + ((9 \times 9 \times 9 - 9)/(9+9))$
- 8789 := $1 + ((1+1) \times ((1+1) \times ((1+1+11)^{1+1+1})))$
:= $22 \times (22-2)^2 - 22/2$
:= $3 + (((3 \times 3+3) \times (3^{3+3}+3)) - 3/3) + 3$
:= $((4 \times 4+4) \times (444-4)) - 44/4$
:= $(5 \times (55 \times ((5+5)/5)^5)) - 55/5$
:= $6 + ((6+6) \times (666+66) - 6/6)$
:= $77/7 + (77 \times (((7+7)/7)^7 - (7+7)))$
:= $8888 - (88/8 + 88)$
:= $99/9 \times (9 \times (9 \times 9 + 9) - (99/9))$
- 8790 := $(1+1) \times (1 + ((1+1) \times ((1+1+11)^{1+1+1})))$
:= $2 + (2 \times (2 \times ((22/2+2)^{2/2+2}))$
:= $3 + (((3 \times 3+3) \times (3^{3+3}+3)) + 3)$
:= $(4/4+4) \times (4 \times (444-4) - (4+4)/4)$
:= $(5 \times (55 \times ((5+5)/5)^5)) - 5 - 5$
:= $6 + (6+6) \times (666+66)$
:= $(7/7+7+7) \times (7 \times (77+7) - ((7+7)/7))$
:= $(8-88)/8 + (8888-88)$
:= $(9/9+9) \times (9 \times 99 - (99+9)/9)$
- 8791 := $1 + ((1+1) \times (1 + ((1+1) \times ((1+1+11)^{1+1+1}))))$
:= $2 + (22 \times (22-2)^2 - 22/2)$
:= $3 + ((3/3+3) \times (((3 \times 3+3/3)+3)^3))$
:= $((4 \times 4+4) \times (444-4)) - (4/4+4+4)$
:= $5^5 + (5555+555/5)$
:= $6 + ((6+6) \times (666+66) + 6/6)$
:= $7 + (((77 \times (((7+7)/7)^7 - (7+7))) - 7/7) + 7)$
:= $8888 - ((8/8+88) + 8)$
:= $99 \times 99 - (99/9 + 999)$
- 8792 := $(1+1) \times ((1+1) \times (1 + ((1+1+11)^{1+1+1})))$
:= $2 \times (2 \times (2222 - (22+2)))$
:= $(3/3+3) \times (3 \times 3^{3+3} + 33/3)$
:= $((4 \times 4+4) \times (444-4)) - 4 - 4$
:= $5^5 + ((555+5)/5 + 5555)$
:= $6 + ((6+6) \times (666+66) + ((6+6)/6))$
:= $7 + (77 \times (((7+7)/7)^7 - (7+7))) + 7$
:= $8888 - (88+8)$
:= $(9-9/9) \times (((99 \times 99+9)/9) + 9)$
- 8793 := $1 + ((1+1) \times ((1+1) \times (1 + ((1+1+11)^{1+1+1}))))$
:= $2 + ((22 \times (22-2)^2 - 22/2) + 2)$
:= $3 \times (((3/3+3) \times (3^{3+3}+3)) + 3)$
:= $4 + (((4 \times 4+4) \times (444-4)) - 44/4)$
:= $5 \times 5 + (((5+5)/5)^5 \times (5 \times 55 - 5/5))$
:= $((6 \times 6/(6+6))^6) + (6+6) \times (666+6)$
:= $((7/7+7) \times ((7777-77)/7)) - 7$
:= $8/8 + (8888 - (88+8))$
:= $9 \times 999 - (99+99)$
- 8794 := $(1+1) \times (1 + ((1+1) \times (1 + ((1+1+11)^{1+1+1}))))$
:= $22 \times (22-2)^2 - 2 - 2 - 2$
:= $(3 \times (3 \times 3+3+3)^3) - (33/3)^3$
:= $44 + ((4/4+4)^4 \times ((44-4)/4+4))$
:= $(5 \times (55 \times ((5+5)/5)^5)) - (5/5+5)$
:= $((66-6)/6) + (6+6) \times (666+66)$
:= $7 \times 7 + (77/7 \times ((77/7+777)+7))$
:= $(8+8)/8 + (8888 - (88+8))$
:= $9/9 + (9 \times 999 - (99+99))$
- 8795 := $1 + ((1+1) \times (1 + ((1+1) \times (1 + ((1+1+11)^{1+1+1}))))$
:= $22 \times (22-2)^2 - 2/2 - 2 - 2$
:= $33/3 + ((3 \times 3+3) \times (3^{3+3}+3))$
:= $(4/4+4) \times (4 \times (444-4) - 4/4)$
:= $(5 \times (55 \times ((5+5)/5)^5)) - 5$
:= $66/6 + (6+6) \times (666+66)$
:= $((77/7+7) \times (7 \times (77-7) - 7/7)) - 7$
:= $8 + (8888 - (8888/88))$
:= $(9+9)/9 + (9 \times 999 - (99+99))$
- 8796 := $(1+1) \times ((1+1) \times (1 + ((1+1+11)^{1+1+1})))$
:= $22 \times (22-2)^2 - 2 - 2$
:= $(3/3+3) \times ((3 \times (3^{3+3}+3)) + 3)$
:= $((4 \times 4+4) \times (444-4)) - 4$
:= $5/5 + ((5 \times (55 \times ((5+5)/5)^5)) - 5)$
:= $6 + ((6+6) \times (666+66) + 6)$
:= $7 + (77 \times (((7+7)/7)^7 - (7+7))) + (77/7)$
:= $8888 - (8 \times 8/(8+8) + 88)$
:= $9 + (((999/9 \times (9 \times 9 - ((9+9)/9))) + 9) + 9)$
- 8797 := $((1+1) \times ((11 \times ((1+1) \times (11-1))^{1+1}) - 1)) - 1$
:= $22 \times (22-2)^2 - 2/2 - 2$
:= $3 + ((3 \times (3 \times 3+3+3)^3) - (33/3)^3)$
:= $4/4 + (((4 \times 4+4) \times (444-4)) - 4)$
:= $(5+5)/5 + ((5 \times (55 \times ((5+5)/5)^5)) - 5)$
:= $6 + (((6+6) \times (666+66) + 6/6) + 6)$
:= $7 \times 7 + ((77/7-7) \times ((7+7+7)/7)^7)$
:= $8 + (8888 - (88/8 + 88))$
:= $9 \times 9 \times (99+9) + ((9 \times 99 - 9)/(9+9))$
- 8798 := $(1+1) \times ((11 \times ((1+1) \times (11-1))^{1+1}) - 1)$
:= $22 \times (22-2)^2 - 2$
:= $3 + (((3 \times 3+3) \times (3^{3+3}+3)) + 33/3)$
:= $((4 \times 4+4) \times (444-4)) - (4+4)/4$
:= $(5 \times (55 \times ((5+5)/5)^5)) - (5+5)/5$
:= $6 + (((6+6) \times (666+66) + ((6+6)/6)) + 6)$
:= $(77-7/7+7) \times ((7 \times (7+7) + 7/7) + 7)$
:= $8888 - ((8+8)/8 + 88)$
:= $(9 \times (999-9)) - ((999+9)/9)$
- 8799 := $((1+1) \times (11 \times ((1+1) \times (11-1))^{1+1})) - 1$
:= $22 \times (22-2)^2 - 2/2$
:= $3 + ((3/3+3) \times ((3 \times (3^{3+3}+3)) + 3))$
:= $((4 \times 4+4) \times (444-4)) - 4/4$
:= $(5 \times (55 \times ((5+5)/5)^5)) - 5/5$
:= $6 + ((6+6) \times (666+6) + ((6 \times 6/(6+6))^6))$
:= $77 + ((7+7) \times (7 \times 77 + 77+7))$
:= $8888 - (8/8 + 88)$
:= $(9 \times (999-9)) - 999/9$
- 8800 := $(1+1) \times (11 \times ((1+1) \times (11-1))^{1+1})$
:= $22 \times (22-2)^2$
:= $(3/3+3) \times (((3 \times 3+3/3)+3)^3) + 3$
:= $(4 \times 4+4) \times (444-4)$
:= $5 \times (55 \times ((5+5)/5)^5)$
:= $66/6 \times ((66 \times (6+6) + ((6+6)/6)) + 6)$
:= $(7/7+7) \times ((7777-77)/7)$
:= $8888 - 88$
:= $(9/9+9) \times (9 \times 99 - (99/9))$
- 8801 := $1 + ((1+1) \times (11 \times ((1+1) \times (11-1))^{1+1}))$
:= $2/2 + 22 \times (22-2)^2$
:= $33 \times 333 - (3 \times 3^{3+3} + 3/3)$
:= $4/4 + ((4 \times 4+4) \times (444-4))$
:= $5/5 + (5 \times (55 \times ((5+5)/5)^5))$
:= $(6/6+6+6) \times (666 + (66/6))$
:= $7777 + ((7/7+7) \times ((7+7)/7)^7)$
:= $8/8 + (8888 - 88)$
:= $99 \times 99 - (999+9/9)$
- 8802 := $(1+1) \times (1 + (11 \times ((1+1) \times (11-1))^{1+1}))$
:= $2 + 22 \times (22-2)^2$
:= $3 \times (3 \times ((3^3 \times (33+3)) + 3) + 3)$
:= $(4+4)/4 + ((4 \times 4+4) \times (444-4))$
:= $(5+5)/5 + (5 \times (55 \times ((5+5)/5)^5))$
:= $6 + (((6+6) \times (666+66) + 6) + 6)$
:= $(77/7+7) \times (7 \times (77-7) - 7/7)$
:= $(8+8)/8 + (8888 - 88)$
:= $99 \times 99 - 999$

- ▶ 8803 := $1 + ((1 + 1) \times (1 + (11 \times ((1 + 1) \times (11 - 1))^{1+1})))$
:= $2 + (22 \times (22 - 2)^2 + 2/2)$
:= $3 + ((3/3 + 3) \times (((3 \times 3 + 3/3) + 3)^3) + 3)$
:= $4 + (((4 \times 4 + 4) \times (444 - 4)) - 4/4)$
:= $5 + ((5 \times (55 \times ((5 + 5)/5)^5)) - ((5 + 5)/5))$
:= $((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - (66/6 + 6)$
:= $((7/7 + 7) \times (7777 - 7)/7) - 77$
:= $88/8 + (8888 - (88 + 8))$
:= $9/9 + (99 \times 99 - 999)$
- ▶ 8804 := $(1 + 1) \times (1 + (1 + (11 \times ((1 + 1) \times (11 - 1))^{1+1})))$
:= $2 + (22 \times (22 - 2)^2 + 2)$
:= $(3/3 + 3) \times ((3 \times 3^{3+3} + 33/3) + 3)$
:= $4 + ((4 \times 4 + 4) \times (444 - 4))$
:= $5 + ((5 \times (55 \times ((5 + 5)/5)^5)) - 5/5)$
:= $(6 - 66)/6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - 6)$
:= $(77/7 - 7) \times (((7 + 7 + 7)/7)^7 + 7) + 7$
:= $8888 + (8 \times 8/(8 + 8) - 88)$
:= $(9 + 9)/9 + (99 \times 99 - 999)$
- ▶ 8805 := $1 + ((1 + 1) \times (1 + (1 + (11 \times ((1 + 1) \times (11 - 1))^{1+1}))))$
:= $2 + ((22 \times (22 - 2)^2 + 2/2) + 2)$
:= $3 + (3 \times (3 \times ((3^3 \times (33 + 3)) + 3) + 3))$
:= $4 + (((4 \times 4 + 4) \times (444 - 4)) + 4/4)$
:= $5 + (5 \times (55 \times ((5 + 5)/5)^5))$
:= $6 \times 6 + (666/6 \times (66 + 6/6 + 6 + 6))$
:= $(7/7 + 7 + 7) \times (7 \times (77 + 7) - 7/7)$
:= $8888 - ((88/8 + 8 \times 8) + 8)$
:= $99 \times 99 + (((9 + 9 + 9)/9) - 999)$
- ▶ 8806 := $(1 + 1) \times (1 + (1 + (1 + (11 \times ((1 + 1) \times (11 - 1))^{1+1}))))$
:= $2 + ((22 \times (22 - 2)^2 + 2) + 2)$
:= $(3/3 + 33) \times (((3/3 + 3)^{3/3+3}) + 3)$
:= $((44 - 4)/4 + 4) \times ((4/4 + 4)^4 + 4)$
:= $5 + ((5 \times (55 \times ((5 + 5)/5)^5)) + 5/5)$
:= $(6/6 + 6) \times ((6 \times (6 \times 6 \times 6 - 6)) - ((6 + 6)/6))$
:= $7777 + 7 \times 7 \times (7 + 7 + 7)$
:= $8 + (8888 - ((8 + 8)/8 + 88))$
:= $9 + (((9 \times 99 - 9)/(9 + 9)) + 9 \times 9 \times (99 + 9))$
- ▶ 8807 := $((1 + 1)^{1+1+1} \times (1 + (1111 - 11))) - 1$
:= $2 + (((22 \times (22 - 2)^2 + 2/2) + 2) + 2)$
:= $(33 \times ((3 \times 3 \times (3^3 + 3)) - 3)) - (3/3 + 3)$
:= $4 + (((4 \times 4 + 4) \times (444 - 4)) - 4/4) + 4$
:= $5 + ((5 \times (55 \times ((5 + 5)/5)^5)) + ((5 + 5)/5))$
:= $6 + ((6/6 + 6 + 6) \times (666 + (66/6)))$
:= $7 + ((7/7 + 7) \times ((7777 - 77)/7))$
:= $8 + (8888 - (8/8 + 88))$
:= $((9 - 9/9) \times 9999/9) - 9 \times 9$
- ▶ 8808 := $(1 + 1)^{1+1+1} \times (1 + (1111 - 11))$
:= $2 \times (2 \times (2222 - 22 + 2))$
:= $(33 \times ((3 \times 3 \times (3^3 + 3)) - 3)) - 3$
:= $4 + (((4 \times 4 + 4) \times (444 - 4)) + 4)$
:= $(5 \times 5 - 5/5) \times ((5^5 - 5)/(5 + 5) + 55)$
:= $((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - 6 - 6$
:= $(7/7 + 7) \times ((7777 - 77 + 7)/7)$
:= $8 + (8888 - 88)$
:= $9 + ((9 \times (999 - 9)) - 999/9)$
- ▶ 8809 := $1 + ((1 + 1)^{1+1+1} \times (1 + (1111 - 11)))$
:= $22/2 + (22 \times (22 - 2)^2 - 2)$
:= $3/3 + ((33 \times ((3 \times 3 \times (3^3 + 3)) - 3)) - 3) - 3$
:= $4 + (((4 \times 4 + 4) \times (444 - 4)) + 4/4) + 4$
:= $5 + (((5 \times (55 \times ((5 + 5)/5)^5)) - 5/5) + 5)$
:= $((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - 66/6$
:= $((77 - 7) \times (77 + 7 \times 7)) - 77/7$
:= $8 + ((8888 - 88) + 8/8)$
:= $9 + ((9/9 + 9) \times (9 \times 99 - (99/9)))$
- ▶ 8810 := $(1 + 1) \times (11 + ((1 + 1) \times ((1 + 1 + 11)^{1+1+1})))$
:= $2 + (22 \times (22 - 2)^2 + 2 \times (2 + 2))$
:= $(33 \times ((3 \times 3 \times (3^3 + 3)) - 3)) - 3/3$
:= $(44 - 4)/4 \times ((4/4 + 4)^4 + 4^4)$
:= $5 + ((5 \times (55 \times ((5 + 5)/5)^5)) + 5)$
:= $(6 - 66)/6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6))$
:= $((7 - 77)/7) + ((77 - 7) \times (77 + 7 \times 7))$
:= $8 + ((8888 - 88) + ((8 + 8)/8))$
:= $(9/9 + 9) \times (9 \times 99 - (9/9 + 9))$
- ▶ 8811 := $11 \times (1 + ((1 + 1) \times ((1 + 1) \times (11 - 1))^{1+1}))$
:= $22/2 + 22 \times (22 - 2)^2$
:= $33 \times ((3 \times 3 \times (3^3 + 3)) - 3)$
:= $44/4 + ((4 \times 4 + 4) \times (444 - 4))$
:= $55/5 + (5 \times (55 \times ((5 + 5)/5)^5))$
:= $66/6 \times (((6 \times 6/(6 + 6))^6 + 66) + 6)$
:= $((7/7 + 7) \times 7777/7) - 77$
:= $88/8 + (8888 - 88)$
:= $99 \times ((9 \times 9 - 9/9) + 9)$
- ▶ 8812 := $1 + (11 \times (1 + ((1 + 1) \times ((1 + 1) \times (11 - 1))^{1+1})))$
:= $2 \times ((2 \times (2222 - 22 + 2)) + 2)$
:= $3/3 + (33 \times ((3 \times 3 \times (3^3 + 3)) - 3))$
:= $44 + (4 \times (44 \times 44 + 4^4))$
:= $((55 + 5)/5) + (5 \times (55 \times ((5 + 5)/5)^5))$
:= $((6 + 6)/6)^6 + ((6 + 6) \times ((6 \times 6/(6 + 6))^6))$
:= $((77 - 7) \times (77 + 7 \times 7)) - (7/7 + 7)$
:= $((88 + 8)/8) + (8888 - 88)$
:= $9/9 + (99 \times ((9 \times 9 - 9/9) + 9))$
- ▶ 8813 := $1 + (1 + (11 \times (1 + ((1 + 1) \times ((1 + 1) \times (11 - 1))^{1+1}))))$
:= $2 + (22 \times (22 - 2)^2 + 22/2)$
:= $3 + ((33 \times ((3 \times 3 \times (3^3 + 3)) - 3)) - 3/3)$
:= $(4/4 + 4)^4 + (4 \times 4^4 \times (4 + 4)) - 4$
:= $5 + ((5 \times 5 - 5/5) \times ((5^5 - 5)/(5 + 5) + 55))$
:= $(6/6 + 6) \times ((6 \times (6 \times 6 \times 6 - 6)) - 6/6)$
:= $((77 - 7) \times (77 + 7 \times 7)) - 7$
:= $8888 - (88/8 + 8 \times 8)$
:= $(9 + 9)/9 + (99 \times ((9 \times 9 - 9/9) + 9))$
- ▶ 8814 := $(1 + 1 + 111) \times (111 - (11 \times (1 + 1 + 1)))$
:= $((2 \times (2 \times 22 + 2)) + 2)^2 - 22$
:= $3 + (33 \times ((3 \times 3 \times (3^3 + 3)) - 3))$
:= $4 + ((44 - 4)/4 \times ((4/4 + 4)^4 + 4^4))$
:= $(5 \times ((55 \times ((5 + 5)/5)^5) + 5)) - 55/5$
:= $((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - 6$
:= $7/7 + (((77 - 7) \times (77 + 7 \times 7)) - 7)$
:= $(8 - 88)/8 + (8888 - 8 \times 8)$
:= $99 \times 99 + ((99 + 9)/9 - 999)$
- ▶ 8815 := $1 + ((1 + 1 + 111) \times (111 - (11 \times (1 + 1 + 1))))$
:= $2 + ((22 \times (22 - 2)^2 + 22/2) + 2)$
:= $3 + ((33 \times ((3 \times 3 \times (3^3 + 3)) - 3)) + 3/3)$
:= $((4 \times 4 + 4) \times 444) - (4^4 + 4)/4$
:= $5 + (((5 \times (55 \times ((5 + 5)/5)^5)) + 5) + 5)$
:= $6/6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - 6)$
:= $(7 + 7)/7 + (((77 - 7) \times (77 + 7 \times 7)) - 7)$
:= $8888 - ((8/8 + 8 \times 8) + 8)$
:= $((9 - 9/9) \times (9999/9 - 9)) - 9/9$
- ▶ 8816 := $(1 + 1)^{1+1+1} \times (1 + (1 + (1111 - 11)))$
:= $2^{2+2} + 22 \times (22 - 2)^2$
:= $33 + (((3 \times 3 + 3) \times (3^{3+3} + 3)) - 3/3)$
:= $4 \times (((4/4 + 4) \times (444 - 4)) + 4)$
:= $(55/5 + 5) \times ((5 + 5) \times 55 + 5/5)$
:= $(6 + 6)/6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - 6)$
:= $7 + (((77 - 7) \times (77 + 7 \times 7)) - (77/7))$
:= $8888 - (8 \times 8 + 8)$
:= $(9 - 9/9) \times (9999/9 - 9)$
- ▶ 8817 := $1 + ((1 + 1)^{1+1+1} \times (1 + (1 + (1111 - 11))))$
:= $2/2 + (22 \times (22 - 2)^2 + 2^{2+2})$
:= $33 + ((3 \times 3 + 3) \times (3^{3+3} + 3))$
:= $(4/4 + 4)^4 + (4 \times 4^4 \times (4 + 4))$
:= $5^5/5 + ((5 + 5)/5)^{(55+5+5)/5}$
:= $666/6 + (66 \times (66 + 66) - 6)$
:= $((77 - 7) \times (77 + 7 \times 7)) - (7 + 7 + 7)/7$
:= $8/8 + (8888 - (8 \times 8 + 8))$
:= $(9 \times (9 \times (99 + 9) + 9)) - (99 + 9)/9$

$$\begin{aligned}
\blacktriangleright 8818 &:= (1+1) \times (((11-1) \times ((11+(11-1))^{1+1})) - 1) \\
&:= ((22-2) \times ((22-2/2)^2)) - 2 \\
&:= (3^3 \times (333 - (3+3))) - 33/3 \\
&:= 4/4 + ((4 \times 4^4 \times (4+4)) + (4/4 + 4)^4) \\
&:= 55 + (((5+5)/5)^5 \times (5 \times 55 - 5/5)) - 5 \\
&:= ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - (6+6)/6 \\
&:= ((77-7) \times (77+7 \times 7)) - (7+7)/7 \\
&:= (8+8)/8 + (8888 - (8 \times 8 + 8)) \\
&:= (9 \times (9 \times (99+9) + 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8819 &:= ((1+1) \times ((11-1) \times ((11+(11-1))^{1+1}))) - 1 \\
&:= ((22-2) \times ((22-2/2)^2)) - 2/2 \\
&:= ((3 \times 3 + 3) \times ((3^{3+3} + 3) + 3)) - 3/3 \\
&:= 4 + (((4 \times 4 + 4) \times 444) - (4^4 + 4)/4) \\
&:= 55 + ((5^5 + 5)/5 \times ((5 - 5/5 + 5) + 5)) \\
&:= ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - 6/6 \\
&:= ((77-7) \times (77+7 \times 7)) - 7/7 \\
&:= 8 + ((8888 - 88) + (88/8)) \\
&:= (9 \times (9 \times (99+9) + 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8820 &:= (1+1) \times ((11-1) \times ((11+(11-1))^{1+1})) \\
&:= (22-2) \times ((22-2/2)^2) \\
&:= (3 \times 3 + 3) \times ((3^{3+3} + 3) + 3) \\
&:= (4/4 + 4) \times (4 \times (444 - 4) + 4) \\
&:= 5^5 + ((5^5 - 555) + 5^5) \\
&:= (6 \times 6 + 6) \times (6 \times 6 \times 6 - 6) \\
&:= (77-7) \times (77+7 \times 7) \\
&:= 8888 - (8 \times 8 / (8+8) + 8 \times 8) \\
&:= (9-99) \times (9/9 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8821 &:= 1 + ((1+1) \times ((11-1) \times ((11+(11-1))^{1+1}))) \\
&:= 22 + (22 \times (22-2)^2 - 2/2) \\
&:= 3/3 + ((3 \times 3 + 3) \times ((3^{3+3} + 3) + 3)) \\
&:= 4 + ((4 \times 4^4 \times (4+4)) + (4/4 + 4)^4) \\
&:= 5 + ((55/5 + 5) \times ((5+5) \times 55 + 5/5)) \\
&:= 6/6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) \\
&:= 7/7 + ((77-7) \times (77+7 \times 7)) \\
&:= 8 + (8888 - (88/8 + 8 \times 8)) \\
&:= 9/9 + ((9-99) \times (9/9 - 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8822 &:= (1+1) \times (11 \times (1 + ((1+1) \times (11-1))^{1+1})) \\
&:= 22 + 22 \times (22-2)^2 \\
&:= 3 + (((3 \times 3 + 3) \times ((3^{3+3} + 3) + 3)) - 3/3) \\
&:= 4 + (((4 \times 4^4 \times (4+4)) + (4/4 + 4)^4) + 4/4) \\
&:= (((5+5)/5)^5 \times (5 \times 55 + 5/5)) - 5 - 5 \\
&:= (6+6)/6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) \\
&:= (7+7)/7 + ((77-7) \times (77+7 \times 7)) \\
&:= 8888 - (((8+8)/8) + 8 \times 8) \\
&:= (9+9)/9 + ((9-99) \times (9/9 - 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8823 &:= 111 + (((11 \times (1+11))^{1+1}) / (1+1)) \\
&:= 22 + (22 \times (22-2)^2 + 2/2) \\
&:= 3 + ((3 \times 3 + 3) \times ((3^{3+3} + 3) + 3)) \\
&:= (4 \times 4 + 4/4) \times (((4+4) \times (4^4 + 4) - 4) / 4) \\
&:= 55 + (((5+5)/5)^5 \times (5 \times 55 - 5/5)) \\
&:= 666/6 + 66 \times (66+66) \\
&:= (7+7+7)/7 + ((77-7) \times (77+7 \times 7)) \\
&:= 8888 - (8/8 + 8 \times 8) \\
&:= 999/9 + (99 \times (99 - (99/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8824 &:= 1 + (111 + (((11 \times (1+11))^{1+1}) / (1+1))) \\
&:= 2 + (22 \times (22-2)^2 + 22) \\
&:= 3 + (((3 \times 3 + 3) \times ((3^{3+3} + 3) + 3)) + 3/3) \\
&:= (4+4) \times (4444/4 - (4+4)) \\
&:= (5 \times ((55 \times ((5+5)/5)^5) + 5)) - 5/5 \\
&:= 6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - ((6+6)/6)) \\
&:= (7/7 + 7) \times ((7777-7)/7 - 7) \\
&:= 8888 - 8 \times 8 \\
&:= (9-9/9) \times ((9999+9)/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8825 &:= ((1 + (((1+1)^{11-1} - 1) / 11))^{1+1}) - 11 \\
&:= (((2 \times (2 \times 22 + 2)) + 2)^2) - 22/2 \\
&:= (3^3 \times (333 - (3+3))) - (3/3 + 3) \\
&:= (4/4 + 4) \times (4 \times 444 - 44/4) \\
&:= 5 \times ((55 \times ((5+5)/5)^5) + 5) \\
&:= 6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - 6/6) \\
&:= ((7/7 + 7) \times (7777/7 - 7)) - 7 \\
&:= 8/8 + (8888 - 8 \times 8) \\
&:= 9 + ((9-9/9) \times (9999/9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8826 &:= 1 + (((1 + (((1+1)^{11-1} - 1) / 11))^{1+1}) - 11) \\
&:= 2 + ((22 \times (22-2)^2 + 22) + 2) \\
&:= (3^3 \times (333 - (3+3))) - 3 \\
&:= 4 \times 4 + ((44-4)/4 \times ((4/4 + 4)^4 + 4^4)) \\
&:= 5/5 + (5 \times ((55 \times ((5+5)/5)^5) + 5)) \\
&:= 6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) \\
&:= 7 + (((77-7) \times (77+7 \times 7)) - 7/7) \\
&:= (8+8)/8 + (8888 - 8 \times 8) \\
&:= (9 \times (9 \times (99+9) + 9)) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8827 &:= (1+1+11) \times (((1+1)^{11} - 11) / (1+1+1)) \\
&:= 2 + (((2 \times (2 \times 22 + 2)) + 2)^2) - 22/2 \\
&:= 3/3 + ((3^3 \times (333 - (3+3))) - 3) \\
&:= ((44-4^4)/4) + ((4 \times 4 + 4) \times 444) \\
&:= (((5+5)/5)^5 \times (5 \times 55 + 5/5)) - 5 \\
&:= 6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) + 6/6) \\
&:= 7 + ((77-7) \times (77+7 \times 7)) \\
&:= 88/8 + (8888 - (8 \times 8 + 8)) \\
&:= (9 \times (9 \times (99+9) + 9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8828 &:= ((111-1-1) \times (11-1-1)^{1+1}) - 1 \\
&:= 2 \times ((2 \times (2222 - 2^{2+2})) + 2) \\
&:= (3^3 \times (333 - (3+3))) - 3/3 \\
&:= (4 \times ((4+4) \times ((4 \times 4 + 4^4) + 4))) - 4 \\
&:= 5 + (((5+5)/5)^5 \times (5 \times 55 - 5/5)) + 55 \\
&:= 6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) + ((6+6)/6)) \\
&:= 7 + (((77-7) \times (77+7 \times 7)) + 7/7) \\
&:= 8888 + (8 \times 8 / (8+8) - 8 \times 8) \\
&:= (9 \times (9 \times (99+9) + 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8829 &:= (111-1-1) \times (11-1-1)^{1+1} \\
&:= (2/2 + 2)^{2+2} \times (222/2 - 2) \\
&:= 3^3 \times (333 - (3+3)) \\
&:= (4-4/4)^4 \times ((4^4 + 4)/4 + 44) \\
&:= 5 + ((5 \times ((55 \times ((5+5)/5)^5) + 5)) - 5/5) \\
&:= 6 + (66 \times (66+66) + 666/6) \\
&:= 7 + (((77-7) \times (77+7 \times 7)) + ((7+7)/7)) \\
&:= 8 + ((8888 - (88/8 + 8 \times 8)) + 8) \\
&:= 9 \times (9 \times (99+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8830 &:= 1 + ((111-1-1) \times (11-1-1)^{1+1}) \\
&:= (2/2 + 2 + 2) \times ((2 \times 22 - 2)^2 + 2) \\
&:= 3/3 + (3^3 \times (333 - (3+3))) \\
&:= (4/4 + 4) \times ((4-44)/4 + 4 \times 444) \\
&:= 5 + (5 \times ((55 \times ((5+5)/5)^5) + 5)) \\
&:= ((66-6)/6) + ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) \\
&:= ((77-7)/7) + ((77-7) \times (77+7 \times 7)) \\
&:= 8 + (8888 - (((8+8)/8) + 8 \times 8)) \\
&:= 9/9 + (9 \times (9 \times (99+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8831 &:= 1 + (1 + ((111-1-1) \times (11-1-1)^{1+1})) \\
&:= 2 + ((2/2 + 2)^{2+2} \times (222/2 - 2)) \\
&:= 3 + ((3^3 \times (333 - (3+3))) - 3/3) \\
&:= (4 \times ((4+4) \times ((4 \times 4 + 4^4) + 4))) - 4/4 \\
&:= 5 + ((5 \times ((55 \times ((5+5)/5)^5) + 5)) + 5/5) \\
&:= 66/6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) \\
&:= 77/7 + ((77-7) \times (77+7 \times 7)) \\
&:= 8 + (8888 - (8/8 + 8 \times 8)) \\
&:= (9+9)/9 + (9 \times (9 \times (99+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8832 &:= (1+1) \times ((1+1) \times (11 + ((1+1+11))^{1+1+1})) \\
&:= (((2 \times (2 \times 22 + 2)) + 2)^2) - 2 - 2 \\
&:= 3 + (3^3 \times (333 - (3+3))) \\
&:= 4 \times ((4+4) \times ((4 \times 4 + 4^4) + 4)) \\
&:= (((5+5)/5)^5 \times (5 \times 55 + 5/5)) \\
&:= 6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) + 6) \\
&:= (7/7 + 7) \times (7777/7 - 7) \\
&:= 8 + (8888 - 8 \times 8) \\
&:= ((9+9+9)/9) + (9 \times (9 \times (99+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8833 &:= 11 \times (11 \times (1 + ((1 + 11)^{1+1}/(1 + 1)))) \\
&:= (((2 \times (2 \times 22 + 2)) + 2)^2) - 2/2 - 2 \\
&:= 3 + ((3^3 \times (333 - (3 + 3))) + 3/3) \\
&:= 4/4 + (4 \times ((4 + 4) \times ((4 \times 4 + 4^4) + 4))) \\
&:= 5/5 + (((5 + 5)/5)^5 \times (5 \times 55 + 5/5)) \\
&:= 66/6 \times (66 \times (6 + 6) + (66/6)) \\
&:= 7 + (((77 - 7) \times (77 + 7 \times 7)) - 7/7) + 7 \\
&:= 8 + ((8888 - 8 \times 8) + 8/8) \\
&:= 9 + ((9 - 9/9) \times ((9999 + 9)/9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8834 &:= 1 + (11 \times (11 \times (1 + ((1 + 11)^{1+1}/(1 + 1)))) \\
&:= (((2 \times (2 \times 22 + 2)) + 2)^2) - 2 \\
&:= 3 + (((3^3 \times (333 - (3 + 3))) - 3/3) + 3) \\
&:= (4 + 4)/4 + (4 \times ((4 + 4) \times ((4 \times 4 + 4^4) + 4))) \\
&:= ((5 - 5/5 + 5) + 5) \times ((5^5 + 5)/5 + 5) \\
&:= (6/6 + 6) \times ((6 \times (6 \times 6 \times 6 - 6)) + ((6 + 6)/6)) \\
&:= 7 + (((77 - 7) \times (77 + 7 \times 7)) + 7) \\
&:= 8 + ((8888 - 8 \times 8) + ((8 + 8)/8)) \\
&:= 9 + (((9 - 9/9) \times (9999/9 - 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8835 &:= ((1 + (((1 + 11)^{11-1} - 1)/11))^{1+1}) - 1 \\
&:= (((2 \times (2 \times 22 + 2)) + 2)^2) - 2/2 \\
&:= 3 + ((3^3 \times (333 - (3 + 3))) + 3) \\
&:= ((4 \times 4 + 4) \times 444) - (44 + 4/4) \\
&:= 5 + ((5 \times ((55 \times ((5 + 5)/5)^5) + 5) + 5) \\
&:= 6 + ((66 \times (66 + 66) + 666/6) + 6) \\
&:= (7/7 + 7 + 7) \times (7 \times (77 + 7) + 7/7) \\
&:= 88/8 + (8888 - 8 \times 8) \\
&:= 9 + ((9 \times (9 \times (99 + 9) + 9)) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8836 &:= (1 + (((1 + 11)^{11-1} - 1)/11))^{1+1} \\
&:= ((2 \times (2 \times 22 + 2)) + 2)^2 \\
&:= ((3 \times (3^3 + 3) + 3/3 + 3)^{3-3/3}) \\
&:= ((4 \times 4 + 4) \times 444) - 44 \\
&:= (5 \times (5 \times 5 - 5) - (5/5 + 5))^{(5+5)/5} \\
&:= (((6 + 6)/6)^6 - 6) + 6 \times 6^{(6+6)/6} \\
&:= (((77 - 7)/7) + 77) + 7^{(7+7)/7} \\
&:= ((88 - ((8 + 8)/8)) + 8)^{(8+8)/8} \\
&:= 9 + ((9 \times (9 \times (99 + 9) + 9)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8837 &:= 1 + ((1 + (((1 + 11)^{11-1} - 1)/11))^{1+1}) \\
&:= 2/2 + (((2 \times (2 \times 22 + 2)) + 2)^2) \\
&:= 3 \times 3 + (((3^3 \times (333 - (3 + 3))) - 3/3) \\
&:= 4/4 + (((4 \times 4 + 4) \times 444) - 44) \\
&:= 5 + (((5 + 5)/5)^5 \times (5 \times 55 + 5/5)) \\
&:= 6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) + (66/6)) \\
&:= 7 + (((77 - 7) \times (77 + 7 \times 7)) + ((77 - 7)/7)) \\
&:= 8/8 + (((88 - ((8 + 8)/8)) + 8)^{(8+8)/8}) \\
&:= 9 + ((9 \times (9 \times (99 + 9) + 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8838 &:= 1 + (1 + ((1 + (((1 + 11)^{11-1} - 1)/11))^{1+1})) \\
&:= 2 + (((2 \times (2 \times 22 + 2)) + 2)^2) \\
&:= 3 \times ((3 \times (3 \times (333 - (3 + 3))) + 3) \\
&:= (4 + 4)/4 + (((4 \times 4 + 4) \times 444) - 44) \\
&:= 5 + (((5 + 5)/5)^5 \times (5 \times 55 + 5/5)) + 5/5 \\
&:= (66 \times (6 + 6) \times (6 + 6)) - 666 \\
&:= (77/7 + 7) \times (7 \times (77 - 7) + 7/7) \\
&:= 8 + ((8888 - ((8 + 8)/8) + 8 \times 8) + 8) \\
&:= 9 + (9 \times (9 \times (99 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8839 &:= (((1 + (11 \times (1 + 11)))^{1+1}) - 11)/(1 + 1) \\
&:= 2 + (((2 \times (2 \times 22 + 2)) + 2)^2) + 2/2 \\
&:= 3 + (((3 \times (3^3 + 3) + 3/3) + 3)^{3-3/3}) \\
&:= 4 + ((4 \times 4 + 4) \times 444) - (44 + 4/4) \\
&:= 5 + (((5 - 5/5 + 5) + 5) \times ((5^5 + 5)/5 + 5)) \\
&:= 6 + ((66/6) \times (66 \times (6 + 6) + (66/6))) \\
&:= 7 + ((7/7 + 7) \times (7777/7 - 7)) \\
&:= 8 + ((8888 - (8/8 + 8 \times 8)) + 8) \\
&:= 9 + ((9 \times (9 \times (99 + 9) + 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8840 &:= 1 + (((1 + (11 \times (1 + 11)))^{1+1}) - 11)/(1 + 1) \\
&:= (2 - 22) \times (2 - 2 \times 222) \\
&:= 33/3 + (3^3 \times (333 - (3 + 3))) \\
&:= 4 + (((4 \times 4 + 4) \times 444) - 44) \\
&:= (55 + 5 + 5) \times (555/5 + 5 \times 5) \\
&:= ((6 + 6)/6 + 6) \times ((6666/6) - 6) \\
&:= (7/7 + 7) \times ((7777 + 7)/7 - 7) \\
&:= 8 + ((8888 - 8 \times 8) + 8) \\
&:= 99/9 + (9 \times (9 \times (99 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8841 &:= 1 + (1 + (((1 + (11 \times (1 + 11)))^{1+1}) - 11)/(1 + 1)) \\
&:= 2/2 + ((2 - 22) \times (2 - 2 \times 222)) \\
&:= 3 + ((3^3 \times (333 - (3 + 3))) + 3 \times 3) \\
&:= 4 + (((4 \times 4 + 4) \times 444) - 44) + 4/4 \\
&:= 5 + ((5 \times (5 \times 5 - 5) - (5/5 + 5))^{(5+5)/5}) \\
&:= 6/6 + (((6 + 6)/6 + 6) \times ((6666/6) - 6)) \\
&:= (7 \times (7 + 7) \times (77 + 7 + 7)) - 77 \\
&:= 8 + (((8888 - 8 \times 8) + 8/8) + 8) \\
&:= (99 + 9)/9 + (9 \times (9 \times (99 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8842 &:= (1 + 1) \times (((1 + 1) \times (((1 + 11)^{1+1}) - 11)) - 1) \\
&:= (22 \times ((22 - 2)^2 + 2)) - 2 \\
&:= 3 + (((3 \times (3^3 + 3) + 3/3) + 3)^{3-3/3}) + 3 \\
&:= (4 + 4)/4 + ((4444 - 4/4) - 44) \\
&:= 5 + (((5 + 5)/5)^5 \times (5 \times 55 + 5/5)) + 5 \\
&:= 6 + (((6 + 6)/6)^6 - 6) + 6 \times 6^{(6+6)/6} \\
&:= 7 + ((7/7 + 7 + 7) \times (7 \times (77 + 7) + 7/7)) \\
&:= 8 + (((8888 - 8 \times 8) + ((8 + 8)/8)) + 8) \\
&:= ((99 + 9 + 9)/9) + (9 \times (9 \times (99 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8843 &:= (((1 + (11 \times (1 + 11)))^{1+1}) - 1)/(1 + 1) - 1 \\
&:= (22 \times ((22 - 2)^2 + 2)) - 2/2 \\
&:= 3 + ((3^3 \times (333 - (3 + 3))) + 33/3) \\
&:= 44 + (((4 \times 4 + 4) \times (444 - 4)) - 4/4) \\
&:= ((55/5 + 5) \times (555 - (5 + 5)/5)) - 5 \\
&:= ((66 + 66) \times (66 + 6/6)) - 6/6 \\
&:= 7 + (((77 - 7)/7) + 77) + 7^{(7+7)/7} \\
&:= 8 + ((8888 - 8 \times 8) + (88/8)) \\
&:= 9 + (((9 - 9/9) \times (9999/9 - 9)) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8844 &:= (((1 + (11 \times (1 + 11)))^{1+1}) - 1)/(1 + 1) \\
&:= 22 \times ((22 - 2)^2 + 2) \\
&:= 33 + (33 \times ((3 \times 3 \times (3^3 + 3)) - 3)) \\
&:= 44 + ((4 \times 4 + 4) \times (444 - 4)) \\
&:= (5/5 + 5) \times (5 \times (5 \times (55 + 5) - 5) - 5/5) \\
&:= (66 + 66) \times (66 + 6/6) \\
&:= 7777 + (77 \times (7 + 7) - (77/7)) \\
&:= 8888 - (88/((8 + 8)/8)) \\
&:= (99 + 9)/9 \times ((9 \times 9 \times 9 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8845 &:= (1 + ((1 + (11 \times (1 + 11)))^{1+1}))/ (1 + 1) \\
&:= 2/2 + (22 \times ((22 - 2)^2 + 2)) \\
&:= ((3 \times 3 + 3) \times (3^{3+3} + 3 \times 3)) - 33/3 \\
&:= 44 + (((4 \times 4 + 4) \times (444 - 4)) + 4/4) \\
&:= ((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) - 5 \\
&:= 6/6 + ((66 + 66) \times (66 + 6/6)) \\
&:= 7 + ((77/7 + 7) \times (7 \times (77 - 7) + 7/7)) \\
&:= 8/8 + (8888 - (88/((8 + 8)/8))) \\
&:= 99 + (9 \times 9 \times (99 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8846 &:= 1 + ((1 + (11 \times (1 + 11)))^{1+1}) / (1 + 1) \\
&:= 2 + (22 \times ((22 - 2)^2 + 2)) \\
&:= (3^3 \times (333 - 3)) - ((3/3 + 3)^3) \\
&:= ((4 + 4)/4 \times (4444 + 4/4)) - 44 \\
&:= 5/5 + (((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) - 5) \\
&:= 6 + (((6 + 6)/6 + 6) \times ((6666/6) - 6)) \\
&:= 7 + (((7/7 + 7) \times (7777/7 - 7)) + 7) \\
&:= 88 \times 88 + ((8888 - 8)/8 - 8) \\
&:= 99 + (9 \times 9 \times (99 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8847 &:= 1 + (1 + ((1 + (11 \times (1 + 11)))^{1+1}) / (1 + 1)) \\
&:= 2 + ((22 \times ((22 - 2)^2 + 2)) + 2/2) \\
&:= 3 \times ((3 \times (3^3 \times (33 + 3))) + 33) \\
&:= 44/4 + (((4 \times 4 + 4) \times 444) - 44) \\
&:= 5 + (((5 + 5)/5)^5 \times (5 \times 55 + 5/5)) + 5 + 5 \\
&:= 666/6 + ((6/6 + 6 + 6) \times (666 + 6)) \\
&:= 7 + ((7/7 + 7) \times ((7777 + 7)/7 - 7)) \\
&:= 88 \times 88 + (8888/8 - 8) \\
&:= 99 + 9 \times 9 \times (99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8848 &:= (1 + 111) \times ((11 - 1 - 1)^{1+1} - (1 + 1)) \\
&:= 2 + ((22 \times ((22 - 2)^2 + 2)) + 2) \\
&:= 3/3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3 \times 33) \\
&:= 4 \times (((4 + 4) \times ((4 \times 4 + 4^4) + 4)) + 4) \\
&:= (55/5 + 5) \times (555 - (5 + 5)/5) \\
&:= (6 \times 66 \times (6 + 6)) + (((6 + 6)/6)^{6+6}) \\
&:= 7777 + (77 \times (7 + 7) - 7) \\
&:= 8 + (((8888 - 8 \times 8) + 8) + 8) \\
&:= 9/9 + (9 \times 9 \times (99 + 9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8849 &:= 1 + ((1 + 111) \times ((11 - 1 - 1)^{1+1} - (1 + 1))) \\
&:= 2 + (((22 \times ((22 - 2)^2 + 2)) + 2/2) + 2) \\
&:= 3 + ((3^3 \times (333 - 3)) - ((3/3 + 3)^3)) \\
&:= (4/4 + 4)^4 + ((4 + 4) \times (4 \times 4^4 + 4)) \\
&:= ((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) - 5/5 \\
&:= (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - 6/6 - 6 \\
&:= 7/7 + ((77 \times (7 + 7) - 7) + 7777) \\
&:= 8 + (((8888 - 8 \times 8) + 8/8) + 8) + 8 \\
&:= 9 + ((9 \times (9 \times (99 + 9) + 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8850 &:= (11 + ((1 + (11 \times (1 + 11))))^{1+1})/(1 + 1) \\
&:= 2 + (((22 \times ((22 - 2)^2 + 2)) + 2) + 2) \\
&:= 3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3 \times 33) \\
&:= (4/4 + 4) \times (4 \times 444 - ((4 + 4)/4 + 4)) \\
&:= (5 \times 5 + 5) \times (5 \times (55 + 5) - 5) \\
&:= (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - 6 \\
&:= (7/7 + 7 \times 7) \times (((7 + 7)/7)^7 + 7 \times 7) \\
&:= (((8 + 8)/8) + 8) \times (888 - 88/8 + 8) \\
&:= 999/9 + (9 \times 9 \times (99 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8851 &:= 1 + ((11 + ((1 + (11 \times (1 + 11))))^{1+1})/(1 + 1)) \\
&:= 22/2 + ((2 - 22) \times (2 - 2 \times 222)) \\
&:= 3 + (((3 \times 3 + 3) \times 3^{3+3}) + 3 \times 33) + 3/3 \\
&:= (4 \times 44 \times 44) + (4444/4 - 4) \\
&:= 5/5 + ((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) \\
&:= 6/6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - 6) \\
&:= 7 + ((7777 - (77/7)) + 77 \times (7 + 7)) \\
&:= 8888 - 888/(8 + 8 + 8) \\
&:= ((99 + 99)/9) + (9 \times (9 \times (99 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8852 &:= (1 + 1) \times ((1 + 1) \times (((1 + 1) \times (1 + 1111)) - 11)) \\
&:= 2 \times (2 \times (2222 + 2) - 22) \\
&:= (3/3 + 3) \times ((3 \times 3^{3+3} - 3/3) + 3^3) \\
&:= ((4 + 4) \times (4444/4 - 4)) - 4 \\
&:= (5 + 5)/5 + ((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) \\
&:= 666 + (((6 + 6)/6)^{6+6+6}) - 6 \\
&:= 7 + (((77/7 + 7) \times (7 \times (77 - 7) + 7/7)) + 7) \\
&:= 8 + (8888 - (88/(8 + 8)/8)) \\
&:= 99 + (9 \times 9 \times (99 + 9) + ((9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8853 &:= 1 + ((1 + 1) \times ((1 + 1) \times (((1 + 1) \times (1 + 1111)) - 11))) \\
&:= 2/2 + (2 \times (2 \times (2222 + 2) - 22)) \\
&:= ((3 \times 3 + 3) \times (3^{3+3} + 3 \times 3)) - 3 \\
&:= 4 + (((4 + 4) \times (4 \times 4^4 + 4)) + (4/4 + 4)^4) \\
&:= 5 + ((55/5 + 5) \times (555 - (5 + 5)/5)) \\
&:= 6666 + ((6 \times 6/(6 + 6))^{6/6+6}) \\
&:= 7777 + (77 \times (7 + 7) - ((7 + 7)/7)) \\
&:= 8888 - (88/8 + 8 + 8 + 8) \\
&:= 9 + ((99 + 9)/9 \times ((9 \times 9 \times 9 - 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8854 &:= 11 + (((((1 + (11 \times (1 + 11))))^{1+1}) - 1)/(1 + 1)) - 1 \\
&:= 2 + (2 \times (2 \times (2222 + 2) - 22)) \\
&:= 3/3 + (((3 \times 3 + 3) \times (3^{3+3} + 3 \times 3)) - 3) \\
&:= (4 + 4)/4 \times (4444 - (4 \times 4 + 4/4)) \\
&:= 5 + (((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) - 5/5) \\
&:= (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - (6 + 6)/6 \\
&:= 7777 + (77 \times (7 + 7) - 7/7) \\
&:= 88 \times 88 + (8888 - 8)/8 \\
&:= ((99 + 9) \times (9/9 + 9 \times 9)) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8855 &:= 11 + (((((1 + (11 \times (1 + 11))))^{1+1}) - 1)/(1 + 1)) \\
&:= 22/2 + (22 \times ((22 - 2)^2 + 2)) \\
&:= ((3 \times 3 + 3) \times (3^{3+3} + 3 \times 3)) - 3/3 \\
&:= (4/4 + 4) \times (4 \times 444 - (4/4 + 4)) \\
&:= 5 + ((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) \\
&:= (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - 6/6 \\
&:= 7777 + 77 \times (7 + 7) \\
&:= 88 \times 88 + 8888/8 \\
&:= ((99 + 9) \times (9/9 + 9 \times 9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8856 &:= 11 + ((1 + ((1 + (11 \times (1 + 11))))^{1+1})/(1 + 1)) \\
&:= 2 \times (2 \times (2222 - 2 \times (2 + 2))) \\
&:= (3 \times 3 + 3) \times (3^{3+3} + 3 \times 3) \\
&:= (4 + 4) \times (4444/4 - 4) \\
&:= 5 + (((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) + 5/5) \\
&:= 6 \times (6 \times (6 \times (6 \times 6 + 6) - 6)) \\
&:= 7/7 + (7777 + 77 \times (7 + 7)) \\
&:= 8888 - ((8 + 8 + 8) + 8) \\
&:= (99 + 9) \times (9/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8857 &:= 1 + (11 + ((1 + ((1 + (11 \times (1 + 11))))^{1+1})/(1 + 1))) \\
&:= 2 + ((22 \times ((22 - 2)^2 + 2)) + 22/2) \\
&:= 3/3 + ((3 \times 3 + 3) \times (3^{3+3} + 3 \times 3)) \\
&:= 4/4 + ((4 + 4) \times (4444/4 - 4)) \\
&:= 5 \times 5 + (((5 + 5)/5)^5 \times (5 \times 55 + 5/5)) \\
&:= 6/6 + (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) \\
&:= 7 + ((7/7 + 7 \times 7) \times (((7 + 7)/7)^7 + 7 \times 7)) \\
&:= 8/8 + (8888 - ((8 + 8 + 8) + 8)) \\
&:= 9/9 + ((99 + 9) \times (9/9 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8858 &:= (1 + 1) \times (((1 + 1)^{1+1+1}) + (1 + 1 + 1) \times 111) \\
&:= 22 + (((2 \times (2 \times 22 + 2)) + 2)^2) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} + 3 \times 3)) - 3/3) \\
&:= (4 + 4)/4 + ((4 + 4) \times (4444/4 - 4)) \\
&:= 5 + (((55/5 + 5) \times (555 - (5 + 5)/5)) + 5) \\
&:= 666 + (((6 + 6)/6)^{6/6+6+6}) \\
&:= (7 \times (7 \times (77 - 7) + 777)) - 77/7 \\
&:= 8888 - ((88 + 88)/8 + 8) \\
&:= 99 + (9 \times 9 \times (99 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8859 &:= 111 + ((1 + 11) \times (11 - 1 - 1)^{1+1+1}) \\
&:= 22 + (((2 \times (2 \times 22 + 2)) + 2)^2) + 2/2) \\
&:= 3 + ((3 \times 3 + 3) \times (3^{3+3} + 3 \times 3)) \\
&:= ((4/4 + 4) \times (4 \times 444 - 4)) - 4/4 \\
&:= ((55/5 + 5) \times (555 - 5/5)) - 5 \\
&:= 666/6 + ((6 + 6) \times ((6 \times 6/(6 + 6))^6)) \\
&:= 77/7 + ((77 \times (7 + 7) - 7) + 7777) \\
&:= 8 + (8888 - 888/(8 + 8 + 8)) \\
&:= 999/9 + 9 \times 9 \times (99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8860 &:= (1 + 1) \times ((11 - 1) \times (((1 + 1) \times (1 + 1) \times 111) - 1)) \\
&:= (2 - 22) \times (2/2 - 2 \times 222) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} + 3 \times 3)) + 3/3) \\
&:= (4/4 + 4) \times (4 \times 444 - 4) \\
&:= 5 + (((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) + 5) \\
&:= 6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - ((6 + 6)/6)) \\
&:= 7 + ((7777 - ((7 + 7)/7)) + 77 \times (7 + 7)) \\
&:= 8888 + ((8 - 8 \times 8)/(8 + 8)/8) \\
&:= ((999 + 9)/9) + 9 \times 9 \times (99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8861 &:= ((1 + 1)^{1+1+1} \times (1111 - (1 + 1))) - 11 \\
&:= 2/2 + ((2 - 22) \times (2/2 - 2 \times 222)) \\
&:= 33 + ((3^3 \times (333 - (3 + 3))) - 3/3) \\
&:= 4/4 + ((4/4 + 4) \times (4 \times 444 - 4)) \\
&:= 55/5 + ((5 \times 5 + 5) \times (5 \times (55 + 5) - 5)) \\
&:= 6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - 6/6) \\
&:= 7 + ((7777 - 7/7) + 77 \times (7 + 7)) \\
&:= 8888 - (88/8 + 8 + 8) \\
&:= 9 \times 999 - (((999 + 9)/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8862 &:= (1 + 1) \times (((1 + 1) \times (((1 + 1) \times 1111) - 1)) - 11) \\
&:= (2 \times ((2 \times 2222) - 2)) - 22 \\
&:= 33 + (3^3 \times (333 - (3 + 3))) \\
&:= (4 + 4)/4 + ((4/4 + 4) \times (4 \times 444 - 4)) \\
&:= (5/5 + 5)^5 + (5555/5 - 5 \times 5) \\
&:= 6 + (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) \\
&:= 7 + (7777 + 77 \times (7 + 7)) \\
&:= (8 - 88)/8 + (8888 - (8 + 8)) \\
&:= 9 \times 999 - ((999/9 + 9) + 9)
\end{aligned}$$

- ▶ **8863** := $((1+1)^{1+1+1} \times (1111 - (1+1+1))) - 1$
:= $2/2 + ((2 \times (2 \times 2222) - 2)) - 22$
:= $3/3 + ((3^3 \times (333 - (3+3))) + 33)$
:= $((4 \times 4 + 4) \times 444) - (4 \times 4 + 4/4)$
:= $((55/5 + 5) \times (555 - 5/5)) - 5/5$
:= $6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + 6/6)$
:= $7 + ((7777 + 77 \times (7+7)) + 7/7)$
:= $8888 - (8/8 + 8 + 8 + 8)$
:= $9 + (((99+9) \times (9/9 + 9 \times 9)) - ((9+9)/9))$
- ▶ **8864** := $(1+1)^{1+1+1} \times (1111 - (1+1+1))$
:= $2 \times (2 \times (2222 - (2+2+2)))$
:= $(3 \times 3 - 3/3) \times (3333/3 - 3)$
:= $4 \times ((4/4 + 4) \times 444 - 4)$
:= $(55/5 + 5) \times (555 - 5/5)$
:= $6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + ((6+6)/6))$
:= $(7/7 + 7) \times ((7777 - 7 - 7 - 7)/7)$
:= $8888 - 8 - 8 - 8$
:= $9 + (((99+9) \times (9/9 + 9 \times 9)) - 9/9)$
- ▶ **8865** := $1 + ((1+1)^{1+1+1} \times (1111 - (1+1+1)))$
:= $(2 \times (2 \times 2222)) - 22 - 2/2$
:= $3 \times (3 \times (3 \times 333 - 3) - 33)$
:= $4/4 + (4 \times ((4/4 + 4) \times 444 - 4))$
:= $5 \times (((5+5)/5)^{55/5} - 5 \times 55)$
:= $6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + (6 \times 6/(6+6)))$
:= $((7/7 + 7) \times ((7777 - 7 - 7)/7)) - 7$
:= $8/8 + (8888 - (8+8+8))$
:= $9 + ((99+9) \times (9/9 + 9 \times 9))$
- ▶ **8866** := $(1+1) \times (((1+1) \times ((1+1) \times 1111)) - 11)$
:= $(2 \times (2 \times 2222)) - 22$
:= $(3^3 \times 333) - (3 - 3/3 + 3)^3$
:= $(4+4)/4 \times (4444 - 44/4)$
:= $(5/5 + 5)^5 + (55 \times (5 \times 5 - 5) - (5+5))$
:= $((66 - 6)/6) + (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6)))$
:= $77/7 + (7777 + 77 \times (7+7))$
:= $8888 - (88 + 88)/8$
:= $9 + (((99+9) \times (9/9 + 9 \times 9)) + 9/9)$
- ▶ **8867** := $1 + ((1+1) \times (((1+1) \times ((1+1) \times 1111)) - 11))$
:= $2/2 + ((2 \times (2 \times 2222)) - 22)$
:= $3 + ((3 \times 3 - 3/3) \times (3333/3 - 3))$
:= $4 + (((4 \times 4 + 4) \times 444) - (4 \times 4 + 4/4))$
:= $5 + ((5555/5 - 5 \times 5) + (5/5 + 5)^5)$
:= $66/6 + (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6)))$
:= $(7 \times (7 \times (77 - 7) + 777)) - (7+7)/7$
:= $8888 + ((8 - (88 + 88))/8)$
:= $99/9 + ((99+9) \times (9/9 + 9 \times 9))$
- ▶ **8868** := $(1+1) \times (1 + (((1+1) \times ((1+1) \times 1111)) - 11))$
:= $2 + ((2 \times (2 \times 2222)) - 22)$
:= $3 + (3 \times (3 \times (3 \times 333 - 3) - 33))$
:= $4 + (4 \times ((4/4 + 4) \times 444 - 4))$
:= $555 \times (55/5 + 5) - (55 + 5)/5$
:= $6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + 6)$
:= $(7 \times (7 \times (77 - 7) + 777)) - 7/7$
:= $8888 - ((88 + 8)/8 + 8)$
:= $9 + (9 \times 9 \times (99 + 9) + 999/9)$
- ▶ **8869** := $(111 \times ((11 - 1 - 1)^{1+1} - 1)) - 11$
:= $(2 \times (2 \times (2222 - 2))) - 22/2$
:= $3 + ((3^3 \times 333) - (3 - 3/3 + 3)^3)$
:= $((4 \times 4 + 4) \times 444) - 44/4$
:= $5 + ((55/5 + 5) \times (555 - 5/5))$
:= $6 + (((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + 6/6) + 6)$
:= $7 \times (7 \times (77 - 7) + 777)$
:= $8888 - (88/8 + 8)$
:= $9 \times 999 - (999 + 99)/9$
- ▶ **8870** := $(11 - 1) \times ((111 \times (1+1)^{1+1+1}) - 1)$
:= $(2 \times ((2 \times 2222) + 2)) - 22$
:= $(3 \times 3 + 3/3) \times ((33 \times 3^3) - (3/3 + 3))$
:= $(4/4 + 4) \times (4 \times 444 - (4+4)/4)$
:= $555 \times (55/5 + 5) - 5 - 5$
:= $6 + (((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + ((6+6)/6)) + 6)$
:= $7/7 + (7 \times (7 \times (77 - 7) + 777))$
:= $(8 - 88)/8 + (8888 - 8)$
:= $9 \times 999 - (((999+9)/9) + 9)$
- ▶ **8871** := $((1+1)^{1+1+1} \times (1111 - (1+1))) - 1$
:= $(2 \times (2 \times (2222 - (2+2)))) - 2/2$
:= $3 \times (((33/3 + 3)^3 - 3) + (3+3)^3)$
:= $((4 \times 4 + 4) \times 444) - (4/4 + 4 + 4)$
:= $(5/5 + 5)^5 + (55 \times (5 \times 5 - 5) - 5)$
:= $6 + (((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + (6 \times 6/(6+6))) + 6)$
:= $(7+7)/7 + (7 \times (7 \times (77 - 7) + 777))$
:= $8888 - (8/8 + 8 + 8)$
:= $9 \times 999 - (999/9 + 9)$
- ▶ **8872** := $(1+1)^{1+1+1} \times (1111 - (1+1))$
:= $2 \times (2 \times (2222 - (2+2)))$
:= $(3 \times 3 - 3/3) \times (((3333 + 3)/3) - 3)$
:= $((4 \times 4 + 4) \times 444) - 4 - 4$
:= $5^5 + ((5^5 + 5 + 5)/5 + 5 \times (5 - 5/5)^5)$
:= $((6+6)/6 + 6) \times (((6666 - (6+6))/6)$
:= $(7/7 + 7) \times ((7777 - 7 - 7)/7)$
:= $8888 - 8 - 8$
:= $(9 - 9/9) \times ((9999 - (9+9))/9)$
- ▶ **8873** := $1 + ((1+1)^{1+1+1} \times (1111 - (1+1)))$
:= $2/2 + (2 \times (2 \times (2222 - (2+2))))$
:= $(3 - 3/3 + 3)^3 + ((3 \times 3 + 3) \times 3^{3+3})$
:= $4 + (((4 \times 4 + 4) \times 444) - 44/4)$
:= $(5^5 - 5 - 5)/5 + (5 \times (55 \times (5 \times 5 + 5)))$
:= $6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + (66/6))$
:= $((7/7 + 7) \times (7777 - 7)/7) - 7$
:= $8/8 + (8888 - (8+8))$
:= $9 \times 999 - ((9/9 + 99 + 9) + 9)$
- ▶ **8874** := $1 + (1 + ((1+1)^{1+1+1} \times (1111 - (1+1))))$
:= $2 + (2 \times (2 \times (2222 - (2+2))))$
:= $3 \times ((3 \times ((3 \times (333 - 3)) - 3)) - 3)$
:= $((4 \times 4 + 4) \times 444) - ((4+4)/4 + 4)$
:= $(5^5 - 5)/5 + (5 \times (55 \times (5 \times 5 + 5)))$
:= $6 + (((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + 6) + 6)$
:= $((7/7 + 7) \times 7777/7) - (7+7)$
:= $(8+8)/8 + (8888 - (8+8))$
:= $9 \times 999 - (99 + 9 + 9)$
- ▶ **8875** := $(1 + ((1+1)^{11} \times (1+1+11)))/(1+1+1)$
:= $(2 \times (2 \times 2222)) - (22/2 + 2)$
:= $((3+3)^3 - 3)/3 \times (3 - 3/3 + 3)^3$
:= $(4/4 + 4) \times (4 \times 444 - 4/4)$
:= $5 \times ((5 \times (5 - 5 \times 55)) + 5^5)$
:= $(6^{6-6/6}) + ((6666/6) - (6+6))$
:= $7 + ((7 \times (7 \times (77 - 7) + 777)) - 7/7)$
:= $8888 - (88 + 8 + 8)/8$
:= $9/9 + (9 \times 999 - (99 + 9 + 9))$
- ▶ **8876** := $(1+1) \times ((1+1) \times (((1+1) \times (1111 - 1)) - 1))$
:= $2 \times ((2 \times (2222 - 2)) - 2)$
:= $(3^3 \times (333 - 3)) - 3/3 - 33$
:= $((4 \times 4 + 4) \times 444) - 4$
:= $(5/5 + 5)^5 + 55 \times (5 \times 5 - 5)$
:= $(6^{6-6/6}) + ((6666 - 66)/6)$
:= $7 + (7 \times (7 \times (77 - 7) + 777))$
:= $8888 - (88 + 8)/8$
:= $9 + (((99+9) \times (9/9 + 9 \times 9)) + (99/9))$
- ▶ **8877** := $(1111 \times (1+1)^{1+1+1}) - 11$
:= $(2 \times (2 \times 2222)) - 22/2$
:= $(3^3 \times (333 - 3)) - 33$
:= $4/4 + (((4 \times 4 + 4) \times 444) - 4)$
:= $5/5 + (55 \times (5 \times 5 - 5) + (5/5 + 5)^5)$
:= $66/6 \times (((6 \times 6/(6+6))^6) + 66) + 6) + 6$
:= $7 + ((7 \times (7 \times (77 - 7) + 777)) + 7/7)$
:= $8888 - 88/8$
:= $9 + ((9 \times 9 \times (99 + 9) + 999/9) + 9)$

$$\begin{aligned}
\blacktriangleright 8878 &:= 1 + ((1111 \times (1+1)^{1+1+1}) - 11) \\
&:= (2 \times (2 \times (2222 - 2))) - 2 \\
&:= 3/3 + ((3^3 \times (333 - 3)) - 33) \\
&:= ((4 \times 4 + 4) \times 444) - (4 + 4)/4 \\
&:= 555 \times (55/5 + 5) - (5 + 5)/5 \\
&:= 6 + (((6+6)/6 + 6) \times ((6666 - (6+6))/6)) \\
&:= (7 \times 7 \times (7+7)) + (((7+7)/7)^{7-7/7+7}) \\
&:= (8 - 88)/8 + 8888 \\
&:= 9 \times 999 - ((999 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8879 &:= (111 \times ((11 - 1 - 1)^{1+1} - 1)) - 1 \\
&:= (2 \times (2 \times (2222 - 2))) - 2/2 \\
&:= (3^3 \times 333) - ((333 + 3)/3) \\
&:= ((4 \times 4 + 4) \times 444) - 4/4 \\
&:= 555 \times (55/5 + 5) - 5/5 \\
&:= (6/6 + 6 + 6) \times ((666 + (66/6)) + 6) \\
&:= 7 + ((7/7 + 7) \times ((7777 - 7 - 7)/7)) \\
&:= 8888 - (8/8 + 8) \\
&:= 9 \times 999 - ((999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8880 &:= 111 \times ((11 - 1 - 1)^{1+1} - 1) \\
&:= 22 \times (22 - 2)^2 \\
&:= 3 + ((3^3 \times (333 - 3)) - 33) \\
&:= (4 \times 4 + 4) \times 444 \\
&:= 555 \times (55/5 + 5) \\
&:= 6 \times 6 + ((66 + 66) \times (66 + 6/6)) \\
&:= (7/7 + 7) \times (7777 - 7)/7 \\
&:= 8888 - 8 \\
&:= 999/9 \times (9 \times 9 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8881 &:= 1 + (111 \times ((11 - 1 - 1)^{1+1} - 1)) \\
&:= 2/2 + (2 \times (2 \times (2222 - 2))) \\
&:= ((3 - 333)/3) + (3^3 \times 333) \\
&:= 4/4 + ((4 \times 4 + 4) \times 444) \\
&:= 5/5 + 555 \times (55/5 + 5) \\
&:= (6^{6-6/6}) + ((6666/6) - 6) \\
&:= ((7/7 + 7) \times 7777/7) - 7 \\
&:= 8/8 + (8888 - 8) \\
&:= 9 \times 999 + ((9 - 999)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8882 &:= 1 + (1 + (111 \times ((11 - 1 - 1)^{1+1} - 1))) \\
&:= 2 + (2 \times (2 \times (2222 - 2))) \\
&:= (3^3 \times (333 - 3)) - (3^3 + 3/3) \\
&:= (4 + 4)/4 + ((4 \times 4 + 4) \times 444) \\
&:= (5 + 5)/5 + 555 \times (55/5 + 5) \\
&:= (((6+6)/6 + 6) \times (6666/6)) - 6 \\
&:= 7/7 + (((7/7 + 7) \times 7777/7) - 7) \\
&:= (8 + 8)/8 + (8888 - 8) \\
&:= 9 \times 999 - (9/9 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8883 &:= ((1 + 1) \times ((1 + 1) \times (((1 + 1) \times 1111) - 1))) - 1 \\
&:= (2 \times ((2 \times 2222) - 2)) - 2/2 \\
&:= 3 \times (3 \times ((3 \times (333 - 3)) - 3)) \\
&:= 4 + (((4 \times 4 + 4) \times 444) - 4/4) \\
&:= 5 + (555 \times (55/5 + 5) - ((5 + 5)/5)) \\
&:= 6/6 + (((6+6)/6 + 6) \times (6666/6)) - 6 \\
&:= ((77 - 7) \times ((7+7)/7)^7) - 77 \\
&:= 88/8 + (8888 - (8 + 8)) \\
&:= 9 \times 999 - (99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8884 &:= (1 + 1) \times ((1 + 1) \times (((1 + 1) \times 1111) - 1)) \\
&:= 2 \times (2 \times 2222) - 2 \\
&:= 3/3 + (3 \times (3 \times ((3 \times (333 - 3)) - 3))) \\
&:= 4 + ((4 \times 4 + 4) \times 444) \\
&:= 5 + (555 \times (55/5 + 5) - 5/5) \\
&:= ((6+6)/6)^6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) \\
&:= 7/7 + (((77 - 7) \times ((7+7)/7)^7) - 77) \\
&:= 8888 - 8 \times 8/(8 + 8) \\
&:= 9/9 + (9 \times 999 - (99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8885 &:= 1 + ((1 + 1) \times ((1 + 1) \times (((1 + 1) \times 1111) - 1))) \\
&:= 2/2 + (2 \times ((2 \times 2222) - 2)) \\
&:= ((3 \times 3 - 3/3) \times 3333/3) - 3 \\
&:= 4 + (((4 \times 4 + 4) \times 444) + 4/4) \\
&:= 5 + 555 \times (55/5 + 5) \\
&:= 66 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) - 6/6) \\
&:= ((7/7 - 77) \times (((7 - 777)/7) - 7)) - 7 \\
&:= 8 + (8888 - (88/8)) \\
&:= (9 + 9)/9 + (9 \times 999 - (99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8886 &:= (1 + 1) \times (((1 + 1) \times ((1 + 1) \times 1111)) - 1) \\
&:= (2 \times (2 \times 2222)) - 2 \\
&:= 3 + (3 \times (3 \times ((3 \times (333 - 3)) - 3))) \\
&:= (4 + 4)/4 \times (4444 - 4/4) \\
&:= 5 + (555 \times (55/5 + 5) + 5/5) \\
&:= 66 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) \\
&:= 7777 + (((7777 - 7 - 7)/7)) \\
&:= 8888 - (8 + 8)/8 \\
&:= 9 \times 999 + (((9 + 9 + 9)/9) - (99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8887 &:= (1111 \times (1 + 1)^{1+1+1}) - 1 \\
&:= (2 \times (2 \times 2222)) - 2/2 \\
&:= 3 + ((3 \times (3 \times ((3 \times (333 - 3)) - 3))) + 3/3) \\
&:= ((4 + 4) \times 4444/4) - 4/4 \\
&:= (5/5 + 5)^5 + 5555/5 \\
&:= (6^{6-6/6}) + (6666/6) \\
&:= 7 + ((7/7 + 7) \times (7777 - 7)/7) \\
&:= 8888 - 8/8 \\
&:= 9999 - (9999 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8888 &:= 1111 \times (1 + 1)^{1+1+1} \\
&:= 2 \times (2 \times 2222) \\
&:= (3 \times 3 - 3/3) \times 3333/3 \\
&:= (4 + 4) \times 4444/4 \\
&:= (5/5 + 5)^5 + (5555 + 5)/5 \\
&:= ((6+6)/6 + 6) \times (6666/6) \\
&:= (7/7 + 7) \times 7777/7 \\
&:= 8888 \\
&:= (9 - 9/9) \times 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8889 &:= 1 + (1111 \times (1 + 1)^{1+1+1}) \\
&:= 2/2 + (2 \times (2 \times 2222)) \\
&:= (3^3 \times 333) - (3 \times 33 + 3) \\
&:= 4/4 + ((4 + 4) \times 4444/4) \\
&:= ((5 + 5)^{5-5/5}) - 5555/5 \\
&:= 6/6 + (((6+6)/6 + 6) \times (6666/6)) \\
&:= 7/7 + ((7/7 + 7) \times 7777/7) \\
&:= 8/8 + 8888 \\
&:= 9 + (999/9 \times (9 \times 9 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8890 &:= 1 + (1 + (1111 \times (1 + 1)^{1+1+1})) \\
&:= 2 + (2 \times (2 \times 2222)) \\
&:= 3/3 + ((3^3 \times 333) - (3 \times 33 + 3)) \\
&:= (4 + 4)/4 \times (4444 + 4/4) \\
&:= 5 + (555 \times (55/5 + 5) + 5) \\
&:= (6 \times 6 - 6/6) \times (6 \times (6 \times 6 + 6) + ((6+6)/6)) \\
&:= 7 \times 7 \times 7 + 77 \times 777/7 \\
&:= (8 + 8)/8 + 8888 \\
&:= (9/9 + 9) \times (9 \times 99 - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8891 &:= 1 + (1 + (1 + (1111 \times (1 + 1)^{1+1+1}))) \\
&:= 2 + ((2 \times (2 \times 2222)) + 2/2) \\
&:= 3 + ((3 \times 3 - 3/3) \times 3333/3) \\
&:= 44/4 + ((4 \times 4 + 4) \times 444) \\
&:= 55/5 + 555 \times (55/5 + 5) \\
&:= (6 \times ((6 \times (6 \times (6 \times 6 + 6) - 6)) + 6)) - 6/6 \\
&:= 7/7 + (77 \times 777/7 + 7 \times 7 \times 7) \\
&:= 88/8 + (8888 - 8) \\
&:= 9 \times 999 - (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8892 &:= (1 + 1) \times ((1 + 1) \times (1 + ((1 + 1) \times 1111))) \\
&:= 2 \times ((2 \times 2222) + 2) \\
&:= 3 \times (3 \times 3 \times 333 - 33) \\
&:= 4 + ((4 + 4) \times 4444/4) \\
&:= 5 + (5555/5 + (5/5 + 5)^5) \\
&:= 6 \times ((6 \times (6 \times (6 \times 6 + 6) - 6)) + 6) \\
&:= (7/7 - 77) \times (((7 - 777)/7) - 7) \\
&:= 8888 + 8 \times 8/(8 + 8) \\
&:= 9 \times 999 - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8893 &:= 1 + ((1 + 1) \times ((1 + 1) \times (1 + ((1 + 1) \times 1111)))) \\
&:= 2/2 + (2 \times ((2 \times 2222) + 2)) \\
&:= 3/3 + (3 \times (3 \times 3 \times 333 - 33)) \\
&:= 4 + (((4 + 4) \times 4444/4) + 4/4) \\
&:= 5 + ((5555 + 5)/5 + (5/5 + 5)^5) \\
&:= 6 + ((6666/6) + (6^{6-6/6})) \\
&:= 7 + (((7777 - 7 - 7)/7) + 7777) \\
&:= 8 + ((8888 - (88/8)) + 8) \\
&:= 9/9 + (9 \times 999 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8894 &:= (1 + 1) \times (1 + ((1 + 1) \times (1 + ((1 + 1) \times 1111)))) \\
&:= 2 + (2 \times ((2 \times 2222) + 2)) \\
&:= 3 + (((3 \times 3 - 3/3) \times 3333/3) + 3) \\
&:= 4 + ((4 + 4)/4 \times (4444 + 4/4)) \\
&:= 5 + (((5 + 5)^{5-5/5}) - 5555/5) \\
&:= 6 + (((6 + 6)/6 + 6) \times (6666/6)) \\
&:= 7 + (((7/7 + 7) \times (7777 - 7)/7) + 7) \\
&:= 8 + (8888 - ((8 + 8)/8)) \\
&:= (9 + 9)/9 + (9 \times 999 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8895 &:= ((1 + 1)^{1+1+1} \times (1 + 1111)) - 1 \\
&:= (2 \times 2 \times (2222 + 2)) - 2/2 \\
&:= 3 + (3 \times (3 \times 3 \times 333 - 33)) \\
&:= 4 + (((4 \times 4 + 4) \times 444) + 44/4) \\
&:= 5 + ((555 \times (55/5 + 5) + 5) + 5) \\
&:= 666/6 + (6 + 6) \times (666 + 66) \\
&:= 7 + ((7/7 + 7) \times 7777/7) \\
&:= 8 + (8888 - 8/8) \\
&:= 9 \times 999 + (((9 + 9 + 9)/9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8896 &:= (1 + 1)^{1+1+1} \times (1 + 1111) \\
&:= 2 \times 2 \times (2222 + 2) \\
&:= (3 \times 3 - 3/3) \times ((3333 + 3)/3) \\
&:= 4 \times ((4/4 + 4) \times 444 + 4) \\
&:= (55/5 + 5) \times (555 + 5/5) \\
&:= ((6 + 6)/6 + 6) \times (6666 + 6)/6 \\
&:= (7/7 + 7) \times (7777 + 7)/7 \\
&:= 8 + 8888 \\
&:= (9 - 9/9) \times (9999 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8897 &:= 1 + ((1 + 1)^{1+1+1} \times (1 + 1111)) \\
&:= 2/2 + (2 \times 2 \times (2222 + 2)) \\
&:= 3 \times 3 + ((3 \times 3 - 3/3) \times 3333/3) \\
&:= 4 \times 4 + (((4 \times 4 + 4) \times 444) + 4/4) \\
&:= 5 + ((5555/5 + (5/5 + 5)^5) + 5) \\
&:= (6 \times 6 - 6/6 + 6) \times (6 \times 6 \times 6 + 6/6) \\
&:= 77 + (((77 - 7) \times (77 + 7 \times 7)) \\
&:= 8 + (8888 + 8/8) \\
&:= 9 + ((9 - 9/9) \times 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8898 &:= 1 + (1 + ((1 + 1)^{1+1+1} \times (1 + 1111))) \\
&:= 2 + (2 \times 2 \times (2222 + 2)) \\
&:= (3^3 \times (333 - 3)) - (3 \times 3 + 3) \\
&:= (4 + 4)/4 \times ((4444 + 4/4) + 4) \\
&:= (5/5 + 5)^5 + ((5555 + 55)/5) \\
&:= 6 + (6 \times ((6 \times (6 \times (6 \times 6 + 6) - 6)) + 6)) \\
&:= 7/7 + (((77 - 7) \times (77 + 7 \times 7)) + 77) \\
&:= 8 + (8888 + ((8 + 8)/8)) \\
&:= (9 \times (999 - 9)) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8899 &:= 11 + (1111 \times (1 + 1)^{1+1+1}) \\
&:= 22/2 + (2 \times (2 \times 2222)) \\
&:= (3^3 \times (333 - 3)) - 33/3 \\
&:= 44/4 + ((4 + 4) \times 4444/4) \\
&:= 5^5 + ((55 \times (5 \times (5 \times 5 - 5) + 5)) - 5/5) \\
&:= 6 + (((6666/6) + (6^{6-6/6})) + 6) \\
&:= 7 + ((7/7 - 77) \times (((7 - 777)/7) - 7)) \\
&:= 88/8 + 8888 \\
&:= (9 \times (999 - 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8900 &:= 1 + (11 + (1111 \times (1 + 1)^{1+1+1})) \\
&:= 2 \times (2 \times (2222 + 2) + 2) \\
&:= ((3 - 33)/3) + (3^3 \times (333 - 3)) \\
&:= (4/4 + 4) \times (4 \times 444 + 4) \\
&:= 5 \times (((5 \times (5 - 5 \times 55)) + 5^5) + 5) \\
&:= 6 + (((6 + 6)/6 + 6) \times (6666/6) + 6) \\
&:= (7 \times (7 + 7) \times (77 + 7 + 7)) - (77/7 + 7) \\
&:= ((88 + 8)/8) + 8888 \\
&:= (9/9 + 9) \times (9 \times 99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8901 &:= (11 - 1 - 1) \times ((11 - 1)^{1+1+1} - 11) \\
&:= 2 + ((2 \times (2 \times 2222)) + 22/2) \\
&:= 3 \times ((3 \times (3 \times (333 - 3))) - 3) \\
&:= 4/4 + ((4/4 + 4) \times (4 \times 444 + 4)) \\
&:= 5 + ((55/5 + 5) \times (555 + 5/5)) \\
&:= 6 + ((6 + 6) \times (666 + 66) + 666/6) \\
&:= 7 \times 7 \times 7 + (77/7 \times (777 + 7/7)) \\
&:= 8888 + (88 + 8 + 8)/8 \\
&:= (9 \times (999 - 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8902 &:= 1 + ((11 - 1 - 1) \times ((11 - 1)^{1+1+1} - 11)) \\
&:= 2 + (2 \times (2 \times (2222 + 2) + 2)) \\
&:= 3 + ((3^3 \times (333 - 3)) - 33/3) \\
&:= 4 + ((4 + 4)/4 \times ((4444 + 4/4) + 4)) \\
&:= 5 + (((5555/5 + (5/5 + 5)^5) + 5) + 5) \\
&:= 6 + (((6 + 6)/6 + 6) \times (6666 + 6)/6) \\
&:= 7 + (((7/7 + 7) \times 7777/7) + 7) \\
&:= 8 + ((8888 - ((8 + 8)/8)) + 8) \\
&:= 9/9 + ((9 \times (999 - 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8903 &:= ((1 + 1)^{1+1+1} \times (1 + (1 + 1111))) - 1 \\
&:= 22/2 + (2 \times ((2 \times 2222) + 2)) \\
&:= (3^3 \times (333 - 3)) - (3/3 + 3 + 3) \\
&:= 4 + (((4 + 4) \times 4444/4) + 44/4) \\
&:= (5 \times 5 - 5/5 + 5) \times (5^5 - 55)/(5 + 5) \\
&:= 6 + ((6 \times 6 - 6/6 + 6) \times (6 \times 6 \times 6 + 6/6)) \\
&:= 7 + ((7/7 + 7) \times (7777 + 7)/7) \\
&:= 8 + ((8888 - 8/8) + 8) \\
&:= (9 + 9)/9 + ((9 \times (999 - 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8904 &:= (1 + 1)^{1+1+1} \times (1 + (1 + 1111)) \\
&:= 2 \times (2 \times (2222 + 2 + 2)) \\
&:= (3^3 \times (333 - 3)) - 3 - 3 \\
&:= 4 + ((4/4 + 4) \times (4 \times 444 + 4)) \\
&:= ((5 - 5/5 + 5) + 5) \times ((55 + 5^5)/5) \\
&:= 6 + ((6 \times ((6 \times (6 \times (6 \times 6 + 6) - 6)) + 6)) + 6) \\
&:= (7 + 7) \times ((7 \times (77 + 7 + 7)) - 7/7) \\
&:= 8 + (8888 + 8) \\
&:= (9 - 9/9) \times ((9999 + 9) + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8905 &:= 1 + ((1 + 1)^{1+1+1} \times (1 + (1 + 1111))) \\
&:= 2/2 + (2 \times (2 \times (2222 + 2 + 2))) \\
&:= 3/3 + ((3^3 \times (333 - 3)) - (3 + 3)) \\
&:= (4/4 + 4) \times ((4 \times 444 + 4/4) + 4) \\
&:= 5 \times 5 + 555 \times (55/5 + 5) \\
&:= (6/6 - 66) \times ((6/6 - (6 + 6) \times (6 + 6)) + 6) \\
&:= (7 - 7/7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7/7) \\
&:= 8 + ((8888 + 8/8) + 8) \\
&:= 9 + ((9 - 9/9) \times (9999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8906 &:= 1 + (1 + ((1 + 1)^{1+1+1} \times (1 + (1 + 1111)))) \\
&:= 2 + (2 \times (2 \times (2222 + 2 + 2))) \\
&:= (3^3 \times (333 - 3)) - (3/3 + 3) \\
&:= ((4 - 4/4)^4 \times (444 - 4)/4) - 4 \\
&:= 5 + (((55/5 + 5) \times (555 + 5/5)) + 5) \\
&:= (66 + 6/6 + 6) \times ((666 + 66)/6) \\
&:= (7 \times (7 + 7) \times (77 + 7 + 7)) - (77 + 7)/7 \\
&:= 8 + ((8888 + ((8 + 8)/8)) + 8) \\
&:= 9 + (((9 - 9/9) \times 9999/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8907 &:= 11 + ((1 + 1)^{1+1+1} \times (1 + 1111)) \\
&:= 22/2 + (2 \times 2 \times (2222 + 2)) \\
&:= (3^3 \times (333 - 3)) - 3 \\
&:= 4 \times 4 + (((4 \times 4 + 4) \times 444) + 44/4) \\
&:= ((55/5 + 5) \times (555 + (5 + 5)/5)) - 5 \\
&:= 6 + (((6 + 6) \times (666 + 66) + 666/6) + 6) \\
&:= (7 \times (7 + 7) \times (77 + 7 + 7)) - 77/7 \\
&:= 8 + (8888 + (88/8)) \\
&:= (9 \times (999 - 9)) - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8908 &:= ((111-1) \times (11-1-1)^{1+1}) - 1 - 1 \\
&:= 2 \times ((2 \times (2222+2+2)) + 2) \\
&:= 3/3 + ((3^3 \times (333-3)) - 3) \\
&:= 4 + (((4/4+4) \times (4 \times 444+4)) + 4) \\
&:= 5 + ((5 \times 5 - 5/5 + 5) \times (5^5 - 55)/(5+5)) \\
&:= ((6+6)/6+66) \times (66-6/6+66) \\
&:= ((7-77)/7) + (7 \times (7+7) \times (77+7+7)) \\
&:= 8 + (((88+8)/8) + 8888) \\
&:= (9 \times (999-9)) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8909 &:= ((111-1) \times (11-1-1)^{1+1}) - 1 \\
&:= 22 + ((2 \times (2 \times 2222)) - 2/2) \\
&:= (3^3 \times (333-3)) - 3/3 \\
&:= 4 + ((4/4+4) \times ((4 \times 444+4/4) + 4)) \\
&:= 5 + (((5-5/5+5) + 5) \times ((55+5^5)/5)) \\
&:= 6 + (((6 \times 6 - 6/6 + 6) \times (6 \times 6 \times 6 + 6/6)) + 6) \\
&:= 7 + (((7/7+7) \times 7777/7) + 7) + 7) \\
&:= 8 + ((88+8+8)/8 + 8888) \\
&:= (9 \times (999-9)) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8910 &:= (111-1) \times (11-1-1)^{1+1} \\
&:= 22 + (2 \times (2 \times 2222)) \\
&:= 3^3 \times (333-3) \\
&:= (4-4/4)^4 \times (444-4)/4 \\
&:= 5 + (555 \times (55/5+5) + 5 \times 5) \\
&:= 66 + ((66+66) \times (66+6/6)) \\
&:= (77-77/7) \times (((7+7)/7)^7 + 7) \\
&:= 8888 + (88+88)/8 \\
&:= 9 \times (999-9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8911 &:= 1 + ((111-1) \times (11-1-1)^{1+1}) \\
&:= 22 + ((2 \times (2 \times 2222)) + 2/2) \\
&:= 3/3 + (3^3 \times (333-3)) \\
&:= 4/4 + ((4-4/4)^4 \times (444-4)/4) \\
&:= 555/5 + (5 \times (55 \times ((5+5)/5)^5)) \\
&:= (66+6/6) \times (66+6/6+66) \\
&:= (7 \times (7+7) \times (77+7+7)) - 7 \\
&:= 8 + (((8888-8/8) + 8) + 8) \\
&:= 9/9 + (9 \times (999-9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8912 &:= 1 + (1 + ((111-1) \times (11-1-1)^{1+1})) \\
&:= 2 + ((2 \times (2 \times 2222)) + 22) \\
&:= 3 + ((3^3 \times (333-3)) - 3/3) \\
&:= 4 \times (((4/4+4) \times 444+4) + 4) \\
&:= (55/5+5) \times (555 + (5+5)/5) \\
&:= 6 + ((66+6/6+6) \times ((666+66)/6)) \\
&:= 7/7 + ((7 \times (7+7) \times (77+7+7)) - 7) \\
&:= 8 + ((8888+8) + 8) \\
&:= (9+9)/9 + (9 \times (999-9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8913 &:= 1 + (1 + (1 + ((111-1) \times (11-1-1)^{1+1}))) \\
&:= 2 + (((2 \times (2 \times 2222)) + 22) + 2/2) \\
&:= 3 + (3^3 \times (333-3)) \\
&:= 44 + (((4 \times 4+4) \times 444) - 44/4) \\
&:= 5 \times 5 + ((5555+5)/5 + (5/5+5)^5) \\
&:= (6+6)/6 + ((66+6/6) \times (66+6/6+66)) \\
&:= (7+7)/7 + ((7 \times (7+7) \times (77+7+7)) - 7) \\
&:= 8 + (((8888+8/8) + 8) + 8) \\
&:= ((9+9+9)/9) + (9 \times (999-9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8914 &:= 11111 - ((1+1+11)^{1+1+1}) \\
&:= 22 + (2 \times ((2 \times 2222) + 2)) \\
&:= 3 + ((3^3 \times (333-3)) + 3/3) \\
&:= 4 + ((4-4/4)^4 \times (444-4)/4) \\
&:= 5 + (((5-5/5+5) + 5) \times ((55+5^5)/5)) + 5) \\
&:= 6 + (((6+6)/6+66) \times (66-6/6+66)) \\
&:= 7 + ((7 \times (7+7) \times (77+7+7)) - (77/7)) \\
&:= 8 + (((8888 + ((8+8)/8)) + 8) + 8) \\
&:= (9 \times (999-9)) + ((9 \times 9 - 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8915 &:= 1 + (11111 - ((1+1+11)^{1+1+1})) \\
&:= 22 + ((2 \times (2 \times 2222) + 2)) + 2/2) \\
&:= 3 + (((3^3 \times (333-3)) - 3/3) + 3) \\
&:= (4/4+4) \times (((4 \times 444-4/4) + 4) + 4) \\
&:= 5 + ((555 \times (55/5+5) + 5 \times 5) + 5) \\
&:= 66 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - (6/6+6)) \\
&:= (7 \times (7+7) \times (77+7+7)) - (7+7+7)/7) \\
&:= 8 + ((8888 + (88/8)) + 8) \\
&:= (9 \times (999-9)) + ((9 \times 9 + 9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8916 &:= 1 + (1 + (11111 - ((1+1+11)^{1+1+1}))) \\
&:= 2 + ((2 \times ((2 \times 2222) + 2)) + 22) \\
&:= 3 + ((3^3 \times (333-3)) + 3) \\
&:= ((4 \times 4+4) \times (444+4)) - 44 \\
&:= (5/5+5) \times (5 \times 5 \times 55 + 555/5) \\
&:= 66 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - 6) \\
&:= (7 \times (7+7) \times (77+7+7)) - (7+7)/7) \\
&:= 8 + (((88+8)/8) + 8888) + 8) \\
&:= 9 + ((9 \times (999-9)) - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8917 &:= (111/(1+1+1)) \times (((1+1) \times 11^{1+1}) - 1) \\
&:= 22 + ((2 \times 2 \times (2222+2)) - 2/2) \\
&:= 3 + (((3^3 \times (333-3)) + 3/3) + 3) \\
&:= 4/4 + (((4 \times 4+4) \times (444+4)) - 44) \\
&:= 5 + ((55/5+5) \times (555 + (5+5)/5)) \\
&:= 6 + ((66+6/6) \times (66+6/6+66)) \\
&:= (7 \times (7+7) \times (77+7+7)) - 7/7) \\
&:= 8 + (((88+8+8)/8 + 8888) + 8) \\
&:= 9 + ((9 \times (999-9)) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8918 &:= (1+1) \times (11 + ((1+1) \times ((1+1) \times (1+1111)))) \\
&:= 22 + (2 \times 2 \times (2222+2)) \\
&:= (3^3 - 3/3) \times ((3/3 + 3 + 3)^3) \\
&:= 4 + (((4-4/4)^4 \times (444-4)/4) + 4) \\
&:= ((5-5/5+5) + 5) \times ((55+5^5+5)/5) \\
&:= 6 \times 6 + (((6+6)/6+6) \times (6666/6)) - 6) \\
&:= 7 \times (7+7) \times (77+7+7) \\
&:= 8 + ((88+88)/8 + 8888) \\
&:= 9 + ((9 \times (999-9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8919 &:= (11-1-1) \times (1 + ((11-1-1) \times (111-1))) \\
&:= ((22-2) \times (2 \times 222+2)) - 2/2) \\
&:= 3 \times ((3 \times (3 \times (333-3))) + 3) \\
&:= ((4+4) \times (4444/4+4)) - 4/4) \\
&:= 55 + ((55/5+5) \times (555-5/5)) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) - (666/6+6) \\
&:= 7/7 + (7 \times (7+7) \times (77+7+7)) \\
&:= 8 + (((8888-8/8) + 8) + 8) + 8) \\
&:= 9 + (9 \times (999-9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8920 &:= (11-1) \times (1 + (11 \times (11-1-1)^{1+1})) \\
&:= (22-2) \times (2 \times 222+2) \\
&:= 3 \times 3 + ((3^3 \times (333-3)) + 3/3) \\
&:= (4+4) \times (4444/4+4) \\
&:= 5^5 + ((5+5) \times (555+5 \times 5) - 5) \\
&:= ((6+6)/6)^6 + (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) \\
&:= (7+7)/7 + (7 \times (7+7) \times (77+7+7)) \\
&:= 8 + (((8888+8) + 8) + 8) \\
&:= 9 + ((9 \times (999-9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8921 &:= 11 + ((111-1) \times (11-1-1)^{1+1}) \\
&:= 2/2 + ((22-2) \times (2 \times 222+2)) \\
&:= 33/3 + (3^3 \times (333-3)) \\
&:= 4/4 + ((4+4) \times (4444/4+4)) \\
&:= 5 \times 5 + ((55/5+5) \times (555+5/5)) \\
&:= 66 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) - 6/6) \\
&:= (7+7+7)/7 + (7 \times (7+7) \times (77+7+7)) \\
&:= 8 + (((8888+8/8) + 8) + 8) + 8) \\
&:= 99/9 + (9 \times (999-9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8922 &:= 1 + (11 + ((111-1) \times (11-1-1)^{1+1})) \\
&:= 2 + ((22-2) \times (2 \times 222+2)) \\
&:= 3 + ((3^3 \times (333-3)) + 3 \times 3) \\
&:= 44 + (((4 \times 4+4) \times 444) - (4+4)/4) \\
&:= 5 + (((55/5+5) \times (555 + (5+5)/5)) + 5) \\
&:= 66 + (6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) \\
&:= 77/7 + ((7 \times (7+7) \times (77+7+7)) - 7) \\
&:= 8 + (((8888 + ((8+8)/8)) + 8) + 8) + 8) \\
&:= (99+9)/9 + (9 \times (999-9))
\end{aligned}$$

- 8923 := $1 + (1 + (11 + ((111 - 1) \times (11 - 1 - 1)^{1+1})))$
:= $2 + (((22 - 2) \times (2 \times 222 + 2)) + 2/2)$
:= $3 + (((3^3 \times (333 - 3)) + 3 \times 3) + 3/3)$
:= $44 + (((4 \times 4 + 4) \times 444) - 4/4)$
:= $5^5 + (((5 - (5 + 5)/5)^5) + 5555)$
:= $6 \times 6 + ((6666/6) + (6^{6-6/6}))$
:= $7 + ((7 \times (7 + 7) \times (77 + 7 + 7)) - ((7 + 7)/7))$
:= $8 + (((8888 + (88/8)) + 8) + 8)$
:= $(9 \times (999 - 9)) + ((99 + 9 + 9)/9)$
- 8924 := $(1 + 1) \times ((1 + 1) \times (11 + ((1 + 1) \times (1111 - 1))))$
:= $2 \times (2 \times (2222 - 2)) + 22$
:= $3 + (3^3 \times (333 - 3)) + 33/3$
:= $44 + ((4 \times 4 + 4) \times 444)$
:= $5^5 + ((5 + 5) \times (555 + 5 \times 5) - 5/5)$
:= $6 \times 6 + (((6 + 6)/6 + 6) \times (6666/6))$
:= $7 + ((7 \times (7 + 7) \times (77 + 7 + 7)) - 7/7)$
:= $8888 + ((8 \times 8 + 8)/(8 + 8)/8)$
:= $((99/9) + 9 \times 9) \times (99 - ((9 + 9)/9))$
- 8925 := $1 + ((1 + 1) \times ((1 + 1) \times (11 + ((1 + 1) \times (1111 - 1)))))$
:= $2/2 + (2 \times ((2 \times (2222 - 2)) + 22))$
:= $((3 \times (3 + 3)) + 3)^3 - 333 - 3$
:= $44 + (((4 \times 4 + 4) \times 444) + 4/4)$
:= $5 \times (55 \times ((5 + 5)/5)^5) + 5 \times 5$
:= $(6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) - 666/6$
:= $7 + (7 \times (7 + 7) \times (77 + 7 + 7))$
:= $8888 + 888/(8 + 8 + 8)$
:= $9 + (((9 \times (999 - 9)) - ((9 + 9 + 9)/9)) + 9)$
- 8926 := $(1 + 1) \times (1 + ((1 + 1) \times (11 + ((1 + 1) \times (1111 - 1)))))$
:= $2 + (2 \times ((2 \times (2222 - 2)) + 22))$
:= $3^3 + ((3^3 \times (333 - 3)) - 33/3)$
:= $4 \times 4 + ((4 - 4/4)^4 \times (444 - 4)/4)$
:= $5^5 + ((5 + 5) \times (555 + 5 \times 5) + 5/5)$
:= $6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) - 6))) + ((6 + 6)/6)^6)$
:= $7 + ((7 \times (7 + 7) \times (77 + 7 + 7)) + 7/7)$
:= $8 + (((88 + 88)/8 + 8888) + 8)$
:= $9 + (((9 \times (999 - 9)) - ((9 + 9)/9)) + 9)$
- 8927 := $(1 + 1 + 111) \times ((11 - 1 - 1)^{1+1} - (1 + 1))$
:= $(222/2 + 2) \times ((2/2 + 2)^{2+2} - 2)$
:= $(3^3 \times 333) - ((3/3 + 3)^3)$
:= $((4 \times (4 + 4) + 4) \times (4^4 - 4 - 4)) - 4/4$
:= $5^5 + ((5 + 5) \times (555 + 5 \times 5) + ((5 + 5)/5))$
:= $6 \times 6 \times 6 + (66 \times (66 + 66) - 6/6)$
:= $7 + ((7 \times (7 + 7) \times (77 + 7 + 7)) + ((7 + 7)/7))$
:= $8 + (((8888 - 8/8) + 8) + 8) + 8$
:= $9 + (((9 \times (999 - 9)) - 9/9) + 9)$
- 8928 := $(1 + 1) \times ((1 + 1) \times (11 + (((1 + 1) \times 1111) - 1)))$
:= $2 \times (((2 \times 2222) - 2) + 22)$
:= $((3 \times (3 + 3)) + 3)^3 - 333$
:= $(4 \times (4 + 4) + 4) \times (4^4 - 4 - 4)$
:= $((5 + 5)/5)^5 \times ((5 \times 55 - 5/5) + 5)$
:= $6 \times (((6 \times (6 \times (6 \times 6 + 6) - 6)) + 6) + 6)$
:= $(7/7 + 7) \times (((7777 - 7 - 7)/7) + 7)$
:= $8 + (((8888 + 8) + 8) + 8) + 8$
:= $9 + ((9 \times (999 - 9)) + 9)$
- 8929 := $1 + ((1 + 1) \times ((1 + 1) \times (11 + (((1 + 1) \times 1111) - 1))))$
:= $2/2 + (2 \times (((2 \times 2222) - 2) + 22))$
:= $3/3 + (((3 \times (3 + 3)) + 3)^3 - 333)$
:= $4/4 + ((4 \times (4 + 4) + 4) \times (4^4 - 4 - 4))$
:= $5 + (((5 + 5) \times (555 + 5 \times 5) - 5/5) + 5^5)$
:= $6/6 + (66 \times (66 + 66) + 6 \times 6 \times 6)$
:= $77/7 + (7 \times (7 + 7) \times (77 + 7 + 7))$
:= $8 + (((8888 + 8/8) + 8) + 8) + 8$
:= $9 + (((9 \times (999 - 9)) + 9/9) + 9)$
- 8930 := $(1 + 1) \times (((1 + 1) \times (11 + ((1 + 1) \times 1111))) - 1)$
:= $(2 \times ((2 \times 2222) + 22)) - 2$
:= $3 + ((3^3 \times 333) - ((3/3 + 3)^3))$
:= $44 + ((4 + 4)/4 \times (4444 - 4/4))$
:= $5 + ((5 + 5) \times (555 + 5 \times 5) + 5^5)$
:= $((6 + 6)/6 + 6) \times ((6666/6) + 6) - 6$
:= $7 \times 7 + (((7/7 + 7) \times 7777/7) - 7)$
:= $8 \times 8 + (8888 - (88 + 88)/8)$
:= $9 + ((9 \times (999 - 9)) + (99/9))$
- 8931 := $((1 + 1) \times ((1 + 1) \times (11 + ((1 + 1) \times 1111)))) - 1$
:= $(2 \times ((2 \times 2222) + 22)) - 2/2$
:= $3 + (((3 \times (3 + 3)) + 3)^3 - 333)$
:= $4 + (((4 \times (4 + 4) + 4) \times (4^4 - 4 - 4)) - 4/4)$
:= $55 + (55 \times (5 \times 5 - 5) + (5/5 + 5)^5)$
:= $666/6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6))$
:= $(7 - 7/7 + 7) \times ((7 \times 7 \times (7 + 7)) + 7/7)$
:= $8 + (((8888 + (88/8)) + 8) + 8) + 8$
:= $9 + ((9 \times (999 - 9)) + (99 + 9)/9)$
- 8932 := $(1 + 1) \times ((1 + 1) \times (11 + ((1 + 1) \times 1111)))$
:= $2 \times (2 \times 2222) + 22$
:= $3 + (((3 \times (3 + 3)) + 3)^3 - 333) + 3/3$
:= $4 + ((4 \times (4 + 4) + 4) \times (4^4 - 4 - 4))$
:= $(5 \times 5 - 5/5 + 5) \times ((5^5 + 5)/(5 + 5) - 5)$
:= $(66/6 + 66) \times (((666 - 6)/6) + 6)$
:= $7 + ((7 \times (7 + 7) \times (77 + 7 + 7)) + 7)$
:= $8888 + (88/(8 + 8)/8)$
:= $99/9 \times (9 \times (9 \times 9 + 9) + ((9 + 9)/9))$
- 8933 := $1 + ((1 + 1) \times ((1 + 1) \times (11 + ((1 + 1) \times 1111))))$
:= $2/2 + (2 \times ((2 \times 2222) + 22))$
:= $3 + (((3^3 \times 333) - ((3/3 + 3)^3)) + 3)$
:= $4 + (((4 \times (4 + 4) + 4) \times (4^4 - 4 - 4)) + 4/4)$
:= $5 + (((5 + 5)/5)^5 \times ((5 \times 55 - 5/5) + 5))$
:= $6 + ((66 \times (66 + 66) - 6/6) + 6 \times 6 \times 6)$
:= $7 + (((7 \times (7 + 7) \times (77 + 7 + 7)) + 7/7) + 7)$
:= $8 \times 8 + (8888 - (88/8 + 8))$
:= $9 + (((99/9) + 9 \times 9) \times (99 - ((9 + 9)/9)))$
- 8934 := $(1 + 1) \times (1 + ((1 + 1) \times (11 + ((1 + 1) \times 1111))))$
:= $2 + (2 \times ((2 \times 2222) + 22))$
:= $3^3 + ((3^3 \times (333 - 3)) - 3)$
:= $44 + ((4 + 4)/4 \times (4444 + 4/4))$
:= $55 + (555 \times (55/5 + 5) - 5/5)$
:= $6 + (66 \times (66 + 66) + 6 \times 6 \times 6)$
:= $7 + (((7 \times (7 + 7) \times (77 + 7 + 7)) + ((7 + 7)/7)) + 7)$
:= $8 \times 8 + (((8 - 88)/8 - 8) + 8888)$
:= $9 \times 999 - (((9 + 9)/9)^9) + 9/9/9$
- 8935 := $1 + ((1 + 1) \times (1 + ((1 + 1) \times (11 + ((1 + 1) \times 1111)))))$
:= $2 + ((2 \times ((2 \times 2222) + 22)) + 2/2)$
:= $3^3 + (((3^3 \times (333 - 3)) - 3) + 3/3)$
:= $(4/4 + 4) \times (4 \times 444 + 44/4)$
:= $55 + 555 \times (55/5 + 5)$
:= $6 + ((66 \times (66 + 66) + 6 \times 6 \times 6) + 6/6)$
:= $7 + ((7 \times (7 + 7) \times (77 + 7 + 7)) + ((77 - 7)/7))$
:= $8 \times 8 + (8888 - (8/8 + 8 + 8))$
:= $9 \times 999 - ((999 + 9)/(9 + 9))$
- 8936 := $(1 + 1) \times ((1 + 1) \times (1 + (11 + ((1 + 1) \times 1111))))$
:= $2 \times (((2 \times 2222) + 22) + 2)$
:= $3^3 + ((3^3 \times (333 - 3)) - 3/3)$
:= $4 + (((4 \times (4 + 4) + 4) \times (4^4 - 4 - 4)) + 4)$
:= $55 + (555 \times (55/5 + 5) + 5/5)$
:= $((6 + 6)/6 + 6) \times ((6666/6) + 6)$
:= $(7/7 + 7) \times (((7777 - 7)/7) + 7)$
:= $8 \times 8 + (8888 - (8 + 8))$
:= $9 + (((9 \times (999 - 9)) - 9/9) + 9) + 9$
- 8937 := $((111 - 1 - 1) \times (1 + (11 - 1 - 1)^{1+1})) - 1$
:= $2/2 + (2 \times (((2 \times 2222) + 22) + 2))$
:= $3 \times (3 \times ((3 \times (333 - 3)) + 3))$
:= $(4/4 + 4 + 4) \times ((4 \times (4^4 - 4 - 4)) + 4/4)$
:= $5 + ((5 \times 5 - 5/5 + 5) \times ((5^5 + 5)/(5 + 5) - 5))$
:= $6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 - 6)) + 666/6)$
:= $7 \times 7 + ((7/7 + 7) \times 7777/7)$
:= $8/8 + ((8888 - (8 + 8)) + 8 \times 8)$
:= $9 + (((9 \times (999 - 9)) + 9) + 9)$

- 8938 := $(111 - 1 - 1) \times (1 + (11 - 1 - 1)^{1+1})$
:= $2 + (2 \times ((2 \times 2222) + 22) + 2)$
:= $3^3 + ((3^3 \times (333 - 3)) + 3/3)$
:= $4 + (((4 + 4)/4 \times (4444 + 4/4)) + 44)$
:= $5 + (((5 + 5)/5)^5 \times ((5 \times 55 - 5/5) + 5) + 5)$
:= $(6 \times 6 - 6/6 + 6) \times (6 \times 6 \times 6 + (6 + 6)/6)$
:= $7 + ((7 - 7/7 + 7) \times ((7 \times 7 \times (7 + 7)) + 7/7))$
:= $8 \times 8 + ((8888 - (8 + 8)) + ((8 + 8)/8))$
:= $(9/9 + 9 \times 9) \times (9/9 + 99 + 9)$
- 8939 := $1 + ((111 - 1 - 1) \times (1 + (11 - 1 - 1)^{1+1}))$
:= $(2 \times (2 \times (2222 + 2) + 22)) - 2/2$
:= $3 + (((3^3 \times (333 - 3)) - 3/3) + 3^3)$
:= $4 + ((4/4 + 4) \times (4 \times 444 + 44/4))$
:= $5^5 + ((5/5 + 5) \times ((5 - 5/5)^5 - 55))$
:= $6 \times 6 \times 6 + (66 \times (66 + 66) + (66/6))$
:= $7 + (((7 \times (7 + 7) \times (77 + 7 + 7)) + 7) + 7)$
:= $8 \times 8 + 8888 - (88 + 8 + 8)/8$
:= $9 + (((9 \times (999 - 9)) + (99/9)) + 9)$
- 8940 := $(1 + 1) \times ((1 + 1) \times (11 + ((1 + 1) \times (1 + 1111))))$
:= $2 \times (2 \times (2222 + 2) + 22)$
:= $3 + ((3^3 \times (333 - 3)) + 3^3)$
:= $(4/4 + 4) \times ((4 \times (444 + 4)) - 4)$
:= $(55 + 5) \times (5 \times (5 \times 5 + 5) - 5/5)$
:= $(6 - 66) \times ((66 - 6 \times 6 \times 6) + 6/6)$
:= $(7/7 + 7 + 7) \times ((7 \times (77 + 7) + 7/7) + 7)$
:= $8 + ((88/(8 + 8)/8) + 8888)$
:= $(9/9 + 9) \times (((9 + 9 + 9)/9) + 9 \times 99)$
- 8941 := $(11 \times (111 \times (11 - 1 - 1))) - (1 + 1)^{11}$
:= $2/2 + (2 \times (2 \times (2222 + 2) + 22))$
:= $3 + (((3^3 \times (333 - 3)) + 3^3) + 3/3)$
:= $4/4 + ((4/4 + 4) \times ((4 \times (444 + 4)) - 4))$
:= $5/5 + ((55 + 5) \times (5 \times (5 \times 5 + 5) - 5/5))$
:= $6/6 + ((6 - 66) \times ((66 - 6 \times 6 \times 6) + 6/6))$
:= $7 \times 7 + ((7/7 - 77) \times (((7 - 777)/7) - 7))$
:= $8 \times 8 + (8888 - (88/8))$
:= $9 \times 999 - ((9 \times 99 + 9)/(9 + 9))$
- 8942 := $11111 - (11^{1+1} + (1 + 1)^{11})$
:= $2 + (2 \times (2 \times (2222 + 2) + 22))$
:= $33 + ((3^3 \times (333 - 3)) - 3/3)$
:= $(4^4 - 4 - 4)/4 + ((4 \times 4 + 4) \times 444)$
:= $55 + (5555/5 + (5/5 + 5)^5)$
:= $6 + (((6 + 6)/6 + 6) \times ((6666/6) + 6))$
:= $((77 - 7) \times ((7 + 7)/7)^7) - (77/7 + 7)$
:= $8 \times 8 + ((8 - 88)/8 + 8888)$
:= $9 \times 999 + ((9 - 9 \times 99)/(9 + 9))$
- 8943 := $11 \times (((1 + 1) \times (11 \times (111/(1 + 1 + 1)))) - 1)$
:= $22/2 + (2 \times ((2 \times 2222) + 22))$
:= $33 + (3^3 \times (333 - 3))$
:= $((4^4 - 4)/4) + ((4 \times 4 + 4) \times 444)$
:= $55 + ((5555 + 5)/5 + (5/5 + 5)^5)$
:= $6 \times 66 + (666/6 \times (66/6 + 66))$
:= $7 + ((7/7 + 7) \times ((7777 - 7)/7 + 7))$
:= $8 \times 8 + (8888 - (8/8 + 8))$
:= $99/9 \times (9 \times (9 \times 9 + 9) + ((9 + 9 + 9)/9))$
- 8944 := $1 + (11 \times (((1 + 1) \times (11 \times (111/(1 + 1 + 1)))) - 1))$
:= $2 \times ((2 \times (2222 + 2) + 22) + 2)$
:= $3/3 + ((3^3 \times (333 - 3)) + 33)$
:= $(44 + 4 + 4) \times (4 \times 44 - 4)$
:= $(55/5 + 5) \times (555 - 5/5 + 5)$
:= $((6 + 6)/6 + 6) \times ((6666 + 6)/6 + 6)$
:= $(7/7 + 7) \times (7777/7 + 7)$
:= $8 \times 8 + (8888 - 8)$
:= $9 + (9 \times 999 - ((999 + 9)/(9 + 9)))$
- 8945 := $(1 + 1)^{11-1} + ((111 - 11 - 11)^{1+1})$
:= $2 + ((2 \times ((2 \times 2222) + 22)) + 22/2)$
:= $((3 \times 3 + 33) \times ((3 + 3)^3 - 3)) - 3/3$
:= $4/4 + ((44 + 4 + 4) \times (4 \times 44 - 4))$
:= $(5 \times (5 \times 5 + 5) \times (55 + 5)) - 55$
:= $(6 - 6/6) \times ((6 - 6 \times 6) \times (6 - 66) - (66/6))$
:= $7/7 + ((7/7 + 7) \times (7777/7 + 7))$
:= $8/8 + ((8888 - 8) + 8 \times 8)$
:= $9 + (((9 \times (999 - 9)) - 9/9) + 9) + 9$
- 8946 := $(1 + 1) \times (((11 \times (11 \times 111 - 1)) - 1)/(1 + 1 + 1))$
:= $22^2 + (((2 \times (2 \times 22 + 2))^2) - 2)$
:= $(3 \times 3 + 33) \times ((3 + 3)^3 - 3)$
:= $(4 + 4)/4 + ((44 + 4 + 4) \times (4 \times 44 - 4))$
:= $5/5 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) - 55)$
:= $(6/6 + 6) \times (6 \times 6 \times 6 \times 6 - (6 + 6 + 6))$
:= $(77 + 7 \times 7) \times ((7/7 - 7) + 77)$
:= $8 \times 8 + ((8888 - 8) + ((8 + 8)/8))$
:= $9 + (((9 \times (999 - 9)) + 9) + 9) + 9$
- 8947 := $111 + ((1 + (((1 + 1)^{11-1} - 1)/11))^{1+1})$
:= $22^2 + (((2 \times (2 \times 22 + 2))^2) - 2/2)$
:= $3/3 + ((3 \times 3 + 33) \times ((3 + 3)^3 - 3))$
:= $((4 - 4/4)^4 \times 444/4) - 44$
:= $5 + ((5555/5 + (5/5 + 5)^5) + 55)$
:= $((66/6 + 6) + 6) \times (6 \times 66 - (6/6 + 6))$
:= $7/7 + ((77 + 7 \times 7) \times ((7/7 - 7) + 77))$
:= $8 \times 8 + ((8888 - (8 + 8)) + (88/8))$
:= $9 + ((9/9 + 9 \times 9) \times (9/9 + 99 + 9))$
- 8948 := $(1 + 1) \times ((1 + 1) \times (11 + ((1 + 1) \times (1 + (1 + 1111))))))$
:= $22^2 + ((2 \times (2 \times 22 + 2))^2)$
:= $3 + (((3 \times 3 + 33) \times ((3 + 3)^3 - 3)) - 3/3)$
:= $4 + ((44 + 4 + 4) \times (4 \times 44 - 4))$
:= $(5^5 - 5 - 5)/5 + ((5 + 5 + 5) \times 555)$
:= $6 + (((6 + 6)/6 + 6) \times ((6666/6) + 6)) + 6$
:= $((7 + 7)/7)^7 + ((77 - 7) \times (77 + 7 \times 7))$
:= $8 \times 8 + (8888 - 8 \times 8/(8 + 8))$
:= $9 + (((9 \times (999 - 9)) + (99/9)) + 9) + 9$
- 8949 := $((1 + 111) \times ((11 - 1 - 1)^{1+1} - 1)) - 11$
:= $2/2 + (((2 \times (2 \times 22 + 2))^2) + 22^2)$
:= $3 + ((3 \times 3 + 33) \times ((3 + 3)^3 - 3))$
:= $((4 \times 4 + 4) \times (444 + 4)) - 44/4$
:= $(5^5 - 5)/5 + ((5 + 5 + 5) \times 555)$
:= $(6 \times 6 \times 6 \times (6 \times 6 + 6)) - ((666/6 + 6) + 6)$
:= $((77 - 7) \times ((7 + 7)/7)^7) - 77/7$
:= $8 + ((8888 - (88/8)) + 8 \times 8)$
:= $9 + ((9 \times (9 \times (99 + 9) + 9)) + 999/9)$
- 8950 := $(11 - 1) \times (((1 + 111) \times (1 + 1)^{1+1+1}) - 1)$
:= $2 + (((2 \times (2 \times 22 + 2))^2) + 22^2)$
:= $3 + (((3 \times 3 + 33) \times ((3 + 3)^3 - 3)) + 3/3)$
:= $(4/4 + 4) \times ((4 \times (444 + 4)) - (4 + 4)/4)$
:= $5 \times ((5 \times 5 + 5) \times (55 + 5) - (5 + 5))$
:= $6 + (((6 + 6)/6 + 6) \times ((6666 + 6)/6 + 6))$
:= $((7 - 77)/7) + ((77 - 7) \times ((7 + 7)/7)^7)$
:= $8 \times 8 + (8888 - ((8 + 8)/8))$
:= $9 \times 999 - ((9 \times 9 \times 9 + 9)/(9 + 9))$
- 8951 := $11111 - (1 + (111 + (1 + 1)^{11}))$
:= $(2 \times (2 \times (2222 + 2^{2+2}))) - 2/2$
:= $33 + ((3^3 - 3/3) \times ((3/3 + 3 + 3)^3))$
:= $4 + (((4 - 4/4)^4 \times 444/4) - 44)$
:= $(5^5 + 5)/5 + ((5 + 5 + 5) \times 555)$
:= $(6 \times (6 \times (6 - 66))) + 66666/6$
:= $7 + ((7/7 + 7) \times (7777/7 + 7))$
:= $8 \times 8 + (8888 - 8/8)$
:= $9 \times 999 + ((9 - 9 \times 9 \times 9)/(9 + 9))$
- 8952 := $11111 - (111 + (1 + 1)^{11})$
:= $2 \times (2 \times (2222 + 2^{2+2}))$
:= $(3^3 \times 333) - (33 + 3 + 3)$
:= $(4 + 4) \times (4444/4 + 4 + 4)$
:= $(5^5 + 5 + 5)/5 + ((5 + 5 + 5) \times 555)$
:= $6 + ((6/6 + 6) \times (6 \times 6 \times 6 \times 6 - (6 + 6 + 6)))$
:= $(7/7 + 7) \times ((7777 + 7)/7 + 7)$
:= $8 \times 8 + 8888$
:= $(9 - 9/9) \times (((9999 - 9)/9) + 9)$

$$\begin{aligned}
\blacktriangleright 8953 &:= 1 + (11111 - (111 + (1 + 1)^{11})) \\
&:= 2/2 + (2 \times (2 \times (2222 + 2^{2+2}))) \\
&:= (3^3 \times 333) - (33/3 + 3^3) \\
&:= 4 + (((4 \times 4 + 4) \times (444 + 4)) - 44/4) \\
&:= 5 + (((5 + 5 + 5) \times 555) + (5^5 - 5 - 5)/5) \\
&:= 66 + ((6666/6) + (6^{6-6/6})) \\
&:= ((77 - 7) \times ((7 + 7)/7)^7) - 7 \\
&:= 8/8 + (8888 + 8 \times 8) \\
&:= 9 \times 999 - ((99/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8954 &:= (1 + 1) \times (11 \times (11 \times (111/(1 + 1 + 1)))) \\
&:= 2 + (2 \times (2 \times (2222 + 2^{2+2}))) \\
&:= (3/3 + 33 + 3) \times ((3^{3+3} - 3)/3) \\
&:= 44 + ((4 - 4/4)^4 \times (444 - 4)/4) \\
&:= 5 + (((5 + 5 + 5) \times 555) + (5^5 - 5)/5) \\
&:= 66 + (((6 + 6)/6 + 6) \times (6666/6)) \\
&:= 7/7 + (((77 - 7) \times ((7 + 7)/7)^7) - 7) \\
&:= 8 \times 8 + (8888 + (8 + 8)/8) \\
&:= 9 \times 999 - (((9/9 + 9 + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8955 &:= (1 + 1 + 1) \times (((1 + 1)^{1+11}) - 1111) \\
&:= 222/2 + (22 \times ((22 - 2)^2 + 2)) \\
&:= 3 \times (3 \times (3 \times 333 - 3) - 3) \\
&:= (4/4 + 4) \times ((4 \times (444 + 4)) - 4/4) \\
&:= 5^5 + (5555 + 5 \times 55) \\
&:= (6 \times 6 \times 6 \times (6 \times 6 + 6)) - (666/6 + 6) \\
&:= (7 + 7)/7 + (((77 - 7) \times ((7 + 7)/7)^7) - 7) \\
&:= 8 \times 8 + ((8888 - 8) + (88/8)) \\
&:= 9 \times 999 - ((9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8956 &:= 1 + ((1 + 1 + 1) \times (((1 + 1)^{1+11}) - 1111)) \\
&:= 2 \times (((22 - 2) \times (222 + 2)) - 2) \\
&:= 3/3 + (3 \times (3 \times (3 \times 333 - 3) - 3)) \\
&:= ((4 \times 4 + 4) \times (444 + 4)) - 4 \\
&:= 5^5/5 + ((5/5 + 5)^5 + 555) \\
&:= ((6 + 6)/6)^6 + (6 \times ((6 \times (6 \times (6 \times 6 + 6) - 6)) + 6)) \\
&:= 7 + (((77 - 7) \times ((7 + 7)/7)^7) - (77/7)) \\
&:= 8 \times 8 + (8888 + 8 \times 8/(8 + 8)) \\
&:= 9/9 + (9 \times 999 - ((9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8957 &:= 1 + (1 + ((1 + 1 + 1) \times (((1 + 1)^{1+11}) - 1111))) \\
&:= 2/2 + (2 \times (((22 - 2) \times (222 + 2)) - 2)) \\
&:= (3^3 \times 333) - 3/3 - 33 \\
&:= 4/4 + (((4 \times 4 + 4) \times (444 + 4)) - 4) \\
&:= 5^5 + ((5 \times 5 - 5/5) \times ((5 - (5 + 5)/5)^5)) \\
&:= 6 + (66666/6 + (6 \times (6 \times (6 - 66)))) \\
&:= 77 + ((7/7 + 7) \times (7777 - 7)/7) \\
&:= 88 + (8888 - (88/8 + 8)) \\
&:= (9 + 9)/9 + (9 \times 999 - ((9 + 9 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8958 &:= (1 + 1 + 1) \times (1 + (((1 + 1)^{1+11}) - 1111)) \\
&:= (2 \times ((22 - 2) \times (222 + 2))) - 2 \\
&:= (3^3 \times 333) - 33 \\
&:= ((4 \times 4 + 4) \times (444 + 4)) - (4 + 4)/4 \\
&:= ((55/5 + 5) \times (555 + 5)) - (5 + 5)/5 \\
&:= 66 + (6 \times ((6 \times (6 \times (6 \times 6 + 6) - 6)) + 6)) \\
&:= ((77 - 7) \times ((7 + 7)/7)^7) - (7 + 7)/7 \\
&:= 8 + ((8888 - ((8 + 8)/8)) + 8 \times 8) \\
&:= 9 \times 999 - (99/((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8959 &:= ((1 + 111) \times ((11 - 1 - 1)^{1+1} - 1)) - 1 \\
&:= (2 \times ((22 - 2) \times (222 + 2))) - 2/2 \\
&:= 3/3 + ((3^3 \times 333) - 33) \\
&:= ((4 \times 4 + 4) \times (444 + 4)) - 4/4 \\
&:= ((55/5 + 5) \times (555 + 5)) - 5/5 \\
&:= 6 + (((6666/6) + (6^{6-6/6})) + 66) \\
&:= (((77 - 7) \times ((7 + 7)/7)^7) - 7/7) \\
&:= 8 + ((8888 - 8/8) + 8 \times 8) \\
&:= 9 + (9 \times 999 - ((9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8960 &:= (1 + 111) \times ((11 - 1 - 1)^{1+1} - 1) \\
&:= 2 \times ((22 - 2) \times (222 + 2)) \\
&:= 3 + ((3^3 \times 333) - (3/3 + 33)) \\
&:= (4 \times 4 + 4) \times (444 + 4) \\
&:= (55/5 + 5) \times (555 + 5) \\
&:= (6 \times 6 - 6/6) \times (((6 + 6)/6)^{6+(6+6)/6}) \\
&:= (77 - 7) \times ((7 + 7)/7)^7 \\
&:= 8 + (8888 + 8 \times 8) \\
&:= (9 - 9/9) \times (9999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8961 &:= 1 + ((1 + 111) \times ((11 - 1 - 1)^{1+1} - 1)) \\
&:= 2/2 + (2 \times ((22 - 2) \times (222 + 2))) \\
&:= 3 + ((3^3 \times 333) - 33) \\
&:= 4/4 + ((4 \times 4 + 4) \times (444 + 4)) \\
&:= 5/5 + ((55/5 + 5) \times (555 + 5)) \\
&:= (6 \times 6 \times 6 \times (6 \times 6 + 6)) - 666/6 \\
&:= 7/7 + (((77 - 7) \times ((7 + 7)/7)^7) - 7/7) \\
&:= 8 + ((8888 + 8/8) + 8 \times 8) \\
&:= 9 \times (999 + 9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8962 &:= 1 + (1 + ((1 + 111) \times ((11 - 1 - 1)^{1+1} - 1))) \\
&:= 2 + (2 \times ((22 - 2) \times (222 + 2))) \\
&:= 3 + (((3^3 \times 333) - 33) + 3/3) \\
&:= (4 + 4)/4 + ((4 \times 4 + 4) \times (444 + 4)) \\
&:= (5 + 5)/5 + ((55/5 + 5) \times (555 + 5)) \\
&:= ((6 - 666)/6) + (6 \times 6 \times 6 \times (6 \times 6 + 6)) \\
&:= (7 + 7)/7 + ((77 - 7) \times ((7 + 7)/7)^7) \\
&:= 8 + ((8888 + ((8 + 8)/8)) + 8 \times 8) \\
&:= 9 \times 999 - (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8963 &:= (11 \times (1 + (11 - 1)^{1+1+1})) - (1 + 1)^{11} \\
&:= 2 + ((2 \times ((22 - 2) \times (222 + 2))) + 2/2) \\
&:= (3^3 \times 333) - (3^3 + 3/3) \\
&:= 4 + (((4 \times 4 + 4) \times (444 + 4)) - 4/4) \\
&:= 5 + (((55/5 + 5) \times (555 + 5)) - ((5 + 5)/5)) \\
&:= (6^{6-6/6}) + ((66 \times (6 + 6 + 6)) - 6/6) \\
&:= (7 + 7 + 7)/7 + ((77 - 7) \times ((7 + 7)/7)^7) \\
&:= 8 \times 8 + (8888 + (88/8)) \\
&:= 9 \times 999 - ((9/9 + 9 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8964 &:= (1 + 1 + 1)^{1+1+1} \times ((1 + 1 + 1) \times 111 - 1) \\
&:= 2 \times (((22 - 2) \times (222 + 2)) + 2) \\
&:= 3 \times (3 \times (3 \times 333 - 3)) \\
&:= 4 + ((4 \times 4 + 4) \times (444 + 4)) \\
&:= (55 - 5/5) \times (555/5 + 55) \\
&:= 6 \times (6 \times 6 \times (66 - 6) - 666) \\
&:= 77/7 + (((77 - 7) \times ((7 + 7)/7)^7) - 7) \\
&:= 8 \times 8 + (((88 + 8)/8) + 8888) \\
&:= 9 \times 999 - (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8965 &:= 11 \times (1 + ((1 + 1) \times (11 \times (111/(1 + 1 + 1)))))) \\
&:= 2/2 + (2 \times (((22 - 2) \times (222 + 2)) + 2)) \\
&:= 3/3 + (3 \times (3 \times (3 \times 333 - 3))) \\
&:= 4 + (((4 \times 4 + 4) \times (444 + 4)) + 4/4) \\
&:= 5 + ((55/5 + 5) \times (555 + 5)) \\
&:= 6/6 + ((66 \times (6 + 6 + 6)) + (6^{6-6/6})) \\
&:= 77 + ((7/7 + 7) \times 7777/7) \\
&:= 88 + (8888 - (88/8)) \\
&:= 9/9 + (9 \times 999 - (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8966 &:= 1 + (11 \times (1 + ((1 + 1) \times (11 \times (111/(1 + 1 + 1)))))) \\
&:= 2 + (2 \times (((22 - 2) \times (222 + 2)) + 2)) \\
&:= 3 + ((3^3 \times 333) - (3^3 + 3/3)) \\
&:= 4 + (((4 \times 4 + 4) \times (444 + 4)) + (4 + 4)/4) \\
&:= 5 + (((55/5 + 5) \times (555 + 5)) + 5/5) \\
&:= ((6 + 6)/6) \times (((66 + 6/6)^{(6+6)/6}) - 6) \\
&:= 7 + (((77 - 7) \times ((7 + 7)/7)^7) - 7/7) \\
&:= 88 + ((8 - 88)/8 + 8888) \\
&:= (9 + 9)/9 + (9 \times 999 - (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8967 &:= (((1 + (1 + (11 \times (1 + 11))))^{1+1})/(1 + 1)) - 11 \\
&:= (2 \times (2 \times ((2222 - 2) + 22))) - 2/2 \\
&:= 3 + (3 \times (3 \times (3 \times 333 - 3))) \\
&:= 4 + (((4 \times 4 + 4) \times (444 + 4)) - 4/4 + 4) \\
&:= 5 + (((55/5 + 5) \times (555 + 5)) + ((5 + 5)/5)) \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6)) - 666/6) \\
&:= 7 + ((77 - 7) \times ((7 + 7)/7)^7) \\
&:= 88 + (8888 - (8/8 + 8)) \\
&:= 9 + (9 \times 999 - (99/((9 + 9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8968 &:= (1+1)^{1+1+1} \times (11+(1111-1)) \\
&:= 2 \times (2 \times ((2222-2)+22)) \\
&:= 3 + ((3 \times (3 \times (3 \times 333-3))) + 3/3) \\
&:= 4 + (((4 \times 4 + 4) \times (444+4)) + 4) \\
&:= (5 \times (5 \times 5 + 5) \times (55+5)) - ((5+5)/5)^5 \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6)) + ((6-666)/6)) \\
&:= (77-7/7) \times (777/7+7) \\
&:= 88 + (8888-8) \\
&:= (9-9/9) \times ((9999+9)/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8969 &:= 1 + ((1+1)^{1+1+1} \times (11+(1111-1))) \\
&:= 2/2 + (2 \times (2 \times ((2222-2)+22))) \\
&:= 33/3 + ((3^3 \times 333) - 33) \\
&:= 4 + (((4 \times 4 + 4) \times (444+4)) + 4/4 + 4) \\
&:= 5 + ((55-5/5) \times (555/5+55)) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) - (66+6/6) \\
&:= 777 + (((7+7)/7)^{7-7/7+7}) \\
&:= 8/8 + ((8888-8) + 88) \\
&:= 9 \times 999 - ((99+99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8970 &:= (11-1) \times (1 + ((1+111) \times (1+1)^{1+1+1})) \\
&:= 2 + (2 \times (2 \times ((2222-2)+22))) \\
&:= 3 + ((3 \times (3 \times (3 \times 333-3))) + 3) \\
&:= (4/4+4) \times ((4 \times (444+4)) + (4+4)/4) \\
&:= (5/5+5) \times ((5 \times 5 \times (55+5)) - 5) \\
&:= (6/6-66) \times (6 - (6+6) \times (6+6)) \\
&:= ((77-7)/7) + ((77-7) \times ((7+7)/7)^7) \\
&:= 88 + ((8888-8) + ((8+8)/8)) \\
&:= 9 \times 999 - ((99+9)/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8971 &:= 11 + ((1+111) \times ((11-1-1)^{1+1} - 1)) \\
&:= 22/2 + (2 \times ((22-2) \times (222+2))) \\
&:= (3^3 \times 333) - (33/3 + 3 \times 3) \\
&:= 44/4 + ((4 \times 4 + 4) \times (444+4)) \\
&:= ((5+5)^{5-5/5}) - ((5-5/5)^5 + 5) \\
&:= 6/6 + ((6/6-66) \times (6 - (6+6) \times (6+6))) \\
&:= 77/7 + ((77-7) \times ((7+7)/7)^7) \\
&:= 8 + ((8888 + (88/8)) + 8 \times 8) \\
&:= 9 \times 999 - (99/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8972 &:= (1+1) \times ((1+1) \times (((1+1) \times (11+1111)) - 1)) \\
&:= 2 \times (2 \times (2222+22) - 2) \\
&:= (3^3 \times 333) - ((3 \times (3+3)) + 3/3) \\
&:= ((44-4)/4)^4 - (4 \times 4^4 + 4) \\
&:= 5/5 + (((5+5)^{5-5/5}) - ((5-5/5)^5 + 5)) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) - ((6+6)/6)^6 \\
&:= 7 + (((7/7+7) \times 7777/7) + 77) \\
&:= 88 + (8888 - 8 \times 8/(8+8)) \\
&:= 9 \times 999 - (9/9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8973 &:= (11-1-1) \times ((11-1)^{1+1+1} - (1+1+1)) \\
&:= 2/2 + (2 \times ((2 \times 2222 + 22) - 2)) \\
&:= 3 \times (3 \times (3 \times 333-3) + 3) \\
&:= 4/4 + (((44-4)/4)^4 - (4 \times 4^4 + 4)) \\
&:= (5 \times ((5 \times 5 + 5) \times (55+5) - 5)) - (5+5)/5 \\
&:= 6 + (((6 \times 6 \times 6 \times (6 \times 6 + 6)) - 666/6) + 6) \\
&:= 7 + (((77-7) \times ((7+7)/7)^7) - 7/7 + 7) \\
&:= 8 + ((8888 - (88/8)) + 88) \\
&:= 9 \times 999 - (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8974 &:= (1+1) \times (((1+1) \times ((1+1) \times (11+1111))) - 1) \\
&:= 2 \times 2 \times (2222+22) - 2 \\
&:= 3/3 + (3 \times (3 \times (3 \times 333-3) + 3)) \\
&:= (4+4)/4 \times ((4444-4/4) + 44) \\
&:= (5 \times ((5 \times 5 + 5) \times (55+5) - 5)) - 5/5 \\
&:= (6/6+6) \times (6 \times 6 \times 6 \times 6 - ((6+6)/6 + 6+6)) \\
&:= 7 + (((77-7) \times ((7+7)/7)^7) + 7) \\
&:= 88 + (8888 - ((8+8)/8)) \\
&:= 9/9 + (9 \times 999 - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8975 &:= ((1+1)^{1+1+1} \times (11+1111)) - 1 \\
&:= 2 \times 2 \times (2222+22) - 2/2 \\
&:= 33/3 + (3 \times (3 \times (3 \times 333-3))) \\
&:= ((44-4)/4)^4 - (4 \times 4^4 + 4/4) \\
&:= 5 \times ((5 \times 5 + 5) \times (55+5) - 5) \\
&:= (6 \times 6 - 66/6) \times (6 \times (66-6) - 6/6) \\
&:= 7 + ((77-7/7) \times (777/7+7)) \\
&:= 88 + (8888 - 8/8) \\
&:= (9+9)/9 + (9 \times 999 - (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8976 &:= (1+1)^{1+1+1} \times (11+1111) \\
&:= 2 \times 2 \times (2222+22) \\
&:= 3 + (3 \times (3 \times (3 \times 333-3) + 3)) \\
&:= 4 \times ((4 \times (4/4+4)^4) - 4^4) \\
&:= ((5+5)^{5-5/5}) - (5-5/5)^5 \\
&:= 66 \times (((6+6)/6)^6 + 66) + 6) \\
&:= (7/7+7) \times ((7777+77)/7) \\
&:= 88 + 8888 \\
&:= (9-9/9) \times ((9999+99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8977 &:= 1 + ((1+1)^{1+1+1} \times (11+1111)) \\
&:= 2/2 + 2 \times 2 \times (2222+22) \\
&:= (3^3 \times 333) - (33/3+3) \\
&:= 4/4 + (4 \times ((4 \times (4/4+4)^4) - 4^4)) \\
&:= 5/5 + (((5+5)^{5-5/5}) - (5-5/5)^5) \\
&:= 6/6 + (66 \times (((6+6)/6)^6 + 66) + 6) \\
&:= 7 + (((77-7) \times ((7+7)/7)^7) + ((77-7)/7)) \\
&:= 8/8 + (8888 + 88) \\
&:= 9 \times 999 + (((9-99)/(9+9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8978 &:= ((1+(1+(11 \times (1+11))))^{1+1})/(1+1) \\
&:= 2 + 2 \times 2 \times (2222+22) \\
&:= ((3-33)/3) + ((3^3 \times 333) - 3) \\
&:= (4+4)/4 + (4 \times ((4 \times (4/4+4)^4) - 4^4)) \\
&:= 5 + ((5 \times ((5 \times 5 + 5) \times (55+5) - 5)) - ((5+5)/5)) \\
&:= ((6+6)/6) \times (((66+6/6)^{(6+6)/6}) \\
&:= 7 + (((77-7) \times ((7+7)/7)^7) + (77/7)) \\
&:= 88 + (8888 + ((8+8)/8)) \\
&:= 9 \times 999 - (99+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8979 &:= 1 + (((1+(1+(11 \times (1+11))))^{1+1})/(1+1)) \\
&:= 2 + 2/2 + 2 \times 2 \times (2222+22) \\
&:= (3^3 \times 333) - (3 \times 3 + 3) \\
&:= (4 \times (((4-4/4) + 4)^4)) - (4/4+4)^4 \\
&:= 5 + ((5 \times ((5 \times 5 + 5) \times (55+5) - 5)) - 5/5) \\
&:= (66+6/6+6) \times ((666/6+6) + 6) \\
&:= 7 + (((7/7+7) \times 7777/7) + 77) + 7) \\
&:= 88 + ((8888-8) + (88/8)) \\
&:= 9 \times 999 - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8980 &:= (111 \times (11-1-1)^{1+1}) - 11 \\
&:= 2 \times (2 \times (2222+22) + 2) \\
&:= (3^3 \times 333) - 33/3 \\
&:= 4 + (4 \times ((4 \times (4/4+4)^4) - 4^4)) \\
&:= 5 + (5 \times ((5 \times 5 + 5) \times (55+5) - 5)) \\
&:= ((6+6)/6) \times (((66+6/6)^{(6+6)/6}) + 6/6) \\
&:= 7 + (((77-7) \times ((7+7)/7)^7) - 7/7 + 7) + 7) \\
&:= 88 + (8888 + 8 \times 8/(8+8)) \\
&:= 9 \times 999 - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8981 &:= 1 + ((111 \times (11-1-1)^{1+1}) - 11) \\
&:= 2/2 + 2 \times (2 \times (2222+22) + 2) \\
&:= ((3-33)/3) + (3^3 \times 333) \\
&:= 4 + ((4 \times ((4 \times (4/4+4)^4) - 4^4)) + 4/4) \\
&:= 5 + (((5+5)^{5-5/5}) - (5-5/5)^5) \\
&:= (6/6+6) \times (6 \times 6 \times 6 \times 6 - (6/6+6+6)) \\
&:= 7 + (((77-7) \times ((7+7)/7)^7) + 7) + 7) \\
&:= 8 + (((8888 - (88/8)) + 88) + 8) \\
&:= 9 \times 999 - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8982 &:= (11-1-1) \times ((11-1)^{1+1+1} - (1+1)) \\
&:= 2 + 2 \times (2 \times (2222+22) + 2) \\
&:= 3 \times (3 \times 3 \times 333-3) \\
&:= 4 + ((4 \times ((4 \times (4/4+4)^4) - 4^4)) + (4+4)/4) \\
&:= 5 + (((5+5)^{5-5/5}) - (5-5/5)^5) + 5/5) \\
&:= 6 + (66 \times (((6+6)/6)^6 + 66) + 6) \\
&:= 7 + (((77-7/7) \times (777/7+7)) + 7) \\
&:= 8 + ((8888 - ((8+8)/8)) + 88) \\
&:= 9 \times 999 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8983 &:= 1 + ((11 - 1 - 1) \times ((11 - 1)^{1+1+1} - (1 + 1))) \\
&:= (2 \times (2 \times (2222 + 22 + 2))) - 2/2 \\
&:= 3 + ((3^3 \times 333) - 33/3) \\
&:= ((4 - 4/4)^4 \times 444/4) - 4 - 4 \\
&:= 55 + (((5 + 5)/5)^5 \times ((5 \times 55 - 5/5) + 5)) \\
&:= 6 + ((66 \times (((6 + 6)/6)^6 + 66) + 6)) + 6/6 \\
&:= 7 + ((7/7 + 7) \times ((7777 + 77)/7)) \\
&:= 8 + ((8888 - 8/8) + 88) \\
&:= 9/9 + (9 \times 999 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8984 &:= (1 + 1)^{1+1+1} \times (1 + (11 + 1111)) \\
&:= 2 \times (2 \times (2222 + 22 + 2)) \\
&:= (3^3 \times 333) - (3/3 + 3 + 3) \\
&:= 4 + ((4 \times ((4 \times (4/4 + 4)^4) - 4^4)) + 4) \\
&:= (5 \times (5 \times 5 + 5) \times (55 + 5)) - (55/5 + 5) \\
&:= 6 + (((6 + 6)/6) \times ((66 + 6/6)^{(6+6)/6})) \\
&:= (7/7 + 7) \times ((7777 + 77 + 7)/7) \\
&:= 8 + (8888 + 88) \\
&:= (9 + 9)/9 + (9 \times 999 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8985 &:= 1 + ((1 + 1)^{1+1+1} \times (1 + (11 + 1111))) \\
&:= 2/2 + (2 \times (2 \times (2222 + 22 + 2))) \\
&:= (3^3 \times 333) - 3 - 3 \\
&:= (4/4 + 4) \times (((4 \times (444 + 4)) + 4/4) + 4) \\
&:= (5 + 5 + 5) \times ((5^5 - 5)/5 - 5 \times 5) \\
&:= 6 + ((66 + 6/6 + 6) \times ((666/6 + 6) + 6)) \\
&:= (7/7 + 7 + 7) \times (7 \times (77 + 7) + (77/7)) \\
&:= 8 + ((8888 + 8/8) + 88) \\
&:= 9 \times 999 + (((9 + 9 + 9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8986 &:= 1 + (1 + ((1 + 1)^{1+1+1} \times (1 + (11 + 1111)))) \\
&:= 2 + (2 \times (2 \times (2222 + 22 + 2))) \\
&:= 3/3 + ((3^3 \times 333) - (3 + 3)) \\
&:= ((4 - 4/4)^4 \times 444/4) - 4/4 - 4 \\
&:= 5 + (((5 + 5)^{5-5/5}) - (5 - 5/5)^5) + 5 \\
&:= (6^{6-6/6}) + ((66/6) \times ((666 - 6)/6)) \\
&:= 7 \times (7 + 7) + ((7/7 + 7) \times 7777/7) \\
&:= 8 + ((8888 + ((8 + 8)/8)) + 88) \\
&:= 9 \times 999 + ((9 - 99)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8987 &:= 11 + ((1 + 1)^{1+1+1} \times (11 + 1111)) \\
&:= 22/2 + 2 \times 2 \times (2222 + 22) \\
&:= (3^3 \times 333) - (3/3 + 3) \\
&:= ((4 - 4/4)^4 \times 444/4) - 4 \\
&:= (((5 + 5)/5)^5 \times ((5 \times 55 + 5/5) + 5)) - 5 \\
&:= (6 \times 6 + 6/6 + 6) \times (6 \times 6 \times 6 - (6/6 + 6)) \\
&:= 77 + ((77 - 77/7) \times (((7 + 7)/7)^7 + 7)) \\
&:= 88 + (8888 + (88/8)) \\
&:= 9 \times 999 + ((9 - 9 \times 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8988 &:= (111^{1+1}) - ((1 + 1 + 1) \times 1111) \\
&:= 2 \times ((2 \times (2222 + 22 + 2)) + 2) \\
&:= (3^3 \times 333) - 3 \\
&:= 44 + ((44 + 4 + 4) \times (4 \times 44 - 4)) \\
&:= (5/5 + 5) \times ((5 \times 5 \times (55 + 5)) - ((5 + 5)/5)) \\
&:= (6/6 + 6) \times (6 \times 6 \times 6 \times 6 - (6 + 6)) \\
&:= 77 + ((7 \times (7 + 7) \times (77 + 7 + 7)) - 7) \\
&:= 88 + (((88 + 8)/8) + 8888) \\
&:= 9 \times 999 - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8989 &:= (111 \times (11 - 1 - 1)^{1+1}) - 1 - 1 \\
&:= (222/2 \times (2/2 + 2)^{2+2}) - 2 \\
&:= 3/3 + ((3^3 \times 333) - 3) \\
&:= ((4 - 4/4)^4 \times 444/4) - (4 + 4)/4 \\
&:= (5 \times (5 \times 5 + 5) \times (55 + 5)) - 55/5 \\
&:= 6/6 + ((6/6 + 6) \times (6 \times 6 \times 6 \times 6 - (6 + 6))) \\
&:= 7 + (((77 - 7/7) \times (777/7 + 7)) + 7) + 7 \\
&:= 8888 + (8888/88) \\
&:= 9 \times 999 - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8990 &:= (111 \times (11 - 1 - 1)^{1+1}) - 1 \\
&:= 2 + (2 \times ((2 \times (2222 + 22 + 2)) + 2)) \\
&:= (3^3 \times 333) - 3/3 \\
&:= ((4 - 4/4)^4 \times 444/4) - 4/4 \\
&:= (5 + 5) \times ((5^5 - 5)/5 + 5 \times 55) \\
&:= ((6 + 6)/6) \times (((66 + 6/6)^{(6+6)/6}) + 6) \\
&:= 7 + (((7/7 + 7) \times ((7777 + 77)/7)) + 7) \\
&:= 8888 + ((888 - 8)/8 - 8) \\
&:= 9 \times 999 - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8991 &:= 111 \times (11 - 1 - 1)^{1+1} \\
&:= 222/2 \times (2/2 + 2)^{2+2} \\
&:= 3^3 \times 333 \\
&:= (4 - 4/4)^4 \times 444/4 \\
&:= (5/5 + 5)^5 + (5 \times ((5 - (5 + 5)/5)^5)) \\
&:= (6 \times 6 + 6/6) \times ((6 \times 6/(6 + 6))^{6-6/6}) \\
&:= 777/7 \times ((77/7 - 7) + 77) \\
&:= 888/8 + (8888 - 8) \\
&:= 9 \times 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8992 &:= 1 + (111 \times (11 - 1 - 1)^{1+1}) \\
&:= 2 \times (2^{2 \times (2+2+2)} + (22 - 2)^2) \\
&:= 3/3 + (3^3 \times 333) \\
&:= 4 \times (((4 \times (4/4 + 4)^4) - 4^4) + 4) \\
&:= ((5 + 5)/5)^5 \times ((5 \times 55 + 5/5) + 5) \\
&:= ((6 + 6)/6 + 6) \times (((6666 + 6)/6 + 6) + 6) \\
&:= (7/7 + 7) \times (((7777 - 7)/7 + 7) + 7) \\
&:= 8 + ((8888 + 88) + 8) \\
&:= 9/9 + 9 \times 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8993 &:= 1 + (1 + (111 \times (11 - 1 - 1)^{1+1})) \\
&:= 2 + (222/2 \times (2/2 + 2)^{2+2}) \\
&:= 3 + ((3^3 \times 333) - 3/3) \\
&:= 4/4 + (((44 - 4)/4)^4 + (4 \times (4 - 4^4))) \\
&:= 5^5 + ((5^5 + 5)/(5 + 5) + 5555) \\
&:= ((66/6 + 6) + 6) \times ((6 \times 66 - 6) + 6/6) \\
&:= 7 \times 7 + ((7/7 + 7) \times (7777/7 + 7)) \\
&:= 8 + (((8888 + 8/8) + 88) + 8) \\
&:= (9 + 9)/9 + 9 \times 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8994 &:= 1 + (1 + (1 + (111 \times (11 - 1 - 1)^{1+1}))) \\
&:= (2 \times 2 \times (22 + 2))^2 - 222 \\
&:= 3 + (3^3 \times 333) \\
&:= 4 + (((4 - 4/4)^4 \times 444/4) - 4/4) \\
&:= (5/5 + 5) \times ((5 \times 5 \times (55 + 5)) - 5/5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) - (6 + 6))) - 6 \\
&:= 77 + ((7 \times (7 + 7) \times (77 + 7 + 7)) - 7/7) \\
&:= 8 + (((8888 + ((8 + 8)/8)) + 88) + 8) \\
&:= 9 \times 999 + ((9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8995 &:= 1 + (1 + (1 + (1 + (111 \times (11 - 1 - 1)^{1+1})))) \\
&:= 2 + ((222/2 \times (2/2 + 2)^{2+2}) + 2) \\
&:= 3 + ((3^3 \times 333) + 3/3) \\
&:= 4 + ((4 - 4/4)^4 \times 444/4) \\
&:= (5 \times (5 \times 5 + 5) \times (55 + 5)) - 5 \\
&:= (6/6 + 6) \times (6 \times 6 \times 6 \times 6 - (66/6)) \\
&:= 77 + (7 \times (7 + 7) \times (77 + 7 + 7)) \\
&:= 8 + ((8888 + (88/8)) + 88) \\
&:= 9 \times 999 + ((9 \times 9 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8996 &:= 1 + (1 + (1 + (1 + (1 + (111 \times (11 - 1 - 1)^{1+1})))))) \\
&:= 2 + ((2 \times 2 \times (22 + 2))^2 - 222) \\
&:= 3 + (((3^3 \times 333) - 3/3) + 3) \\
&:= 4 + (((44 - 4)/4)^4 + (4 \times (4 - 4^4))) \\
&:= 5/5 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) - 5) \\
&:= 6 + (((6 + 6)/6) \times (((66 + 6/6)^{(6+6)/6}) + 6)) \\
&:= 7/7 + ((7 \times (7 + 7) \times (77 + 7 + 7)) + 77) \\
&:= 8 + (((88 + 8)/8) + 8888) + 88 \\
&:= 9 \times 999 + ((9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8997 &:= (1 + 1 + 1) \times (((1 + 1 + 1) \times (11 - 1)^{1+1+1}) - 1) \\
&:= 222/2 + ((2 \times (2 \times 2222)) - 2) \\
&:= 3 + ((3^3 \times 333) + 3) \\
&:= 4 + (((44 - 4)/4)^4 + (4 \times (4 - 4^4))) + 4/4 \\
&:= 5 + (((5 + 5)/5)^5 \times ((5 \times 55 + 5/5) + 5)) \\
&:= (6^{6-6/6}) + ((66/6) \times 666/6) \\
&:= 77 + ((7 \times (7 + 7) \times (77 + 7 + 7)) + ((7 + 7)/7)) \\
&:= 8888 + ((888 - 8 - 8)/8) \\
&:= 9 + (9 \times 999 - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8998 &:= ((11-1-1) \times (11-1)^{1+1+1}) - 1 - 1 \\
&:= 22 + 2 \times 2 \times (2222 + 22) \\
&:= 3 + (((3^3 \times 333) + 3/3) + 3) \\
&:= 4 + (((4-4/4)^4 \times 444/4) - 4/4) + 4 \\
&:= (5 \times (5 \times 5 + 5) \times (55 + 5)) - (5 + 5)/5 \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) - (6 + 6))) - (6 + 6)/6 \\
&:= 7 + (777/7 \times ((77/7 - 7) + 77)) \\
&:= 8888 + (888 - 8)/8 \\
&:= 9 + (9 \times 999 - (9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 8999 &:= ((11-1-1) \times (11-1)^{1+1+1}) - 1 \\
&:= 222/2 + (2 \times (2 \times 2222)) \\
&:= 3 \times 3 + ((3^3 \times 333) - 3/3) \\
&:= 4 + (((4-4/4)^4 \times 444/4) + 4) \\
&:= (5 \times (5 \times 5 + 5) \times (55 + 5)) - 5/5 \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) - (6 + 6))) - 6/6 \\
&:= 7 + ((7/7 + 7) \times (((7777-7)/7 + 7) + 7)) \\
&:= 888/8 + 8888 \\
&:= 9 + (9 \times 999 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9000 &:= (11-1-1) \times (11-1)^{1+1+1} \\
&:= (22-2) \times ((2 \times (222+2)) + 2) \\
&:= 3 \times (3 \times 3 \times 333 + 3) \\
&:= 44 + (((4 \times 4 + 4) \times (444 + 4)) - 4) \\
&:= 5 \times (5 \times 5 + 5) \times (55 + 5) \\
&:= 6 \times (6 \times 6 \times (6 \times 6 + 6) - (6 + 6)) \\
&:= (7/7 + 7) \times ((7777/7 + 7) + 7) \\
&:= 8 + (((8888 + 88) + 8) + 8) \\
&:= 9 + 9 \times 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9001 &:= 1 + ((11-1-1) \times (11-1)^{1+1+1}) \\
&:= 2 + ((2 \times (2 \times 2222)) + 222/2) \\
&:= 3 \times 3 + ((3^3 \times 333) + 3/3) \\
&:= (((4 \times 4 + 4/4) + 4)^{4-4/4}) - (4^4 + 4) \\
&:= 5/5 + (5 \times (5 \times 5 + 5) \times (55 + 5)) \\
&:= 6/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) - (6 + 6))) \\
&:= 7 \times 7 \times 7 + ((7/7 + 77) \times 777/7) \\
&:= 8888 + ((888 + 8 + 8)/8) \\
&:= 9 + (9 \times 999 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9002 &:= 11 + (111 \times (11-1-1)^{1+1}) \\
&:= 2 + ((22-2) \times ((2 \times (222+2)) + 2)) \\
&:= 33/3 + (3^3 \times 333) \\
&:= 44/4 + ((4-4/4)^4 \times 444/4) \\
&:= (5+5)/5 + (5 \times (5 \times 5 + 5) \times (55 + 5)) \\
&:= (6+6)/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) - (6 + 6))) \\
&:= (77 \times ((777-7)/7 + 7)) - 7 \\
&:= 8888 + (((888 + 88)/8) - 8) \\
&:= 99/9 + 9 \times 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9003 &:= 1 + (11 + (111 \times (11-1-1)^{1+1})) \\
&:= ((222/2 - 2^{2+2})^2) - 22 \\
&:= 3 + ((3^3 \times 333) + 3 \times 3) \\
&:= 4 + (((4-4/4)^4 \times 444/4) + 4) + 4 \\
&:= 5 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) - ((5 + 5)/5)) \\
&:= ((66/6 + 66) \times (666/6 + 6)) - 6 \\
&:= 7/7 + ((77 \times ((777-7)/7 + 7)) - 7) \\
&:= 8 + (((8888 + (88/8)) + 88) + 8) \\
&:= 9 \times 999 + (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9004 &:= 1 + (1 + (11 + (111 \times (11-1-1)^{1+1}))) \\
&:= 2 \times (((22-2) \times (222+2)) + 22) \\
&:= 3 + (((3^3 \times 333) + 3 \times 3) + 3/3) \\
&:= 44 + ((4 \times 4 + 4) \times (444 + 4)) \\
&:= 5 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) - 5/5) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - ((6 + 6)/6 + 66) \\
&:= (7 + 7)/7 + ((77 \times ((777-7)/7 + 7)) - 7) \\
&:= 8 \times (8 + 8) + (8888 - ((88 + 8)/8)) \\
&:= 9 \times 999 + ((99 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9005 &:= 1 + (1 + (1 + (11 + (111 \times (11-1-1)^{1+1})))) \\
&:= 2 + (((222/2 - 2^{2+2})^2) - 22) \\
&:= 3 + ((3^3 \times 333) + 33/3) \\
&:= (((4 \times 4 + 4/4) + 4)^{4-4/4}) - 4^4 \\
&:= 5 + (5 \times (5 \times 5 + 5) \times (55 + 5)) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - (66 + 6/6) \\
&:= ((7 + 7) \times ((7 \times (77 + 7 + 7)) + 7)) - 77/7 \\
&:= 8 \times (8 + 8) + (8888 - (88/8)) \\
&:= 9 + (((9 \times 9 + 9)/9 + 9) + 9 \times 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9006 &:= 111 + (((1+1)^{1+1+1} \times (1 + 1111)) - 1) \\
&:= 2 + (2 \times (((22-2) \times (222+2)) + 22)) \\
&:= 3 + (((3^3 \times 333) + 3 \times 3) + 3) \\
&:= 4^4 + ((4/4 + 4)^4 \times ((44-4)/4 + 4)) \\
&:= 5 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) + 5/5) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - 66 \\
&:= ((7 + 7)/7 + 77) \times (((7 + 7)/7)^7 - (7 + 7)) \\
&:= 8 + ((888 - 8)/8 + 8888) \\
&:= 9 + ((9 \times 999 - ((9 + 9 + 9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9007 &:= 111 + ((1+1)^{1+1+1} \times (1 + 1111)) \\
&:= (22/2)^2 + ((2 \times (2 \times 2222)) - 2) \\
&:= 3^3 + ((3^3 \times 333) - 33/3) \\
&:= 4 \times 4 + ((4-4/4)^4 \times 444/4) \\
&:= 5 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) + ((5 + 5)/5)) \\
&:= 6/6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 66) \\
&:= 7 + ((7/7 + 7) \times ((7777/7 + 7) + 7)) \\
&:= 8 + (888/8 + 8888) \\
&:= 9 + ((9 \times 999 - ((9 + 9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9008 &:= ((11-1-1) \times (1 + (11-1)^{1+1+1})) - 1 \\
&:= 2 \times (((22-2) \times (222+2)) + 22) + 2) \\
&:= 3 + (((3^3 \times 333) + 33/3) + 3) \\
&:= 4 + (((4 \times 4 + 4) \times (444 + 4)) + 44) \\
&:= 5^5 + (555/5 \times (55 - (5 + 5)/5)) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - ((6 + 6)/6)^6 \\
&:= (77 \times ((777-7)/7 + 7)) - 7/7 \\
&:= 8 \times (8 + 8) + (8888 - 8) \\
&:= 9 + ((9 \times 999 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9009 &:= (11-1-1) \times (1 + (11-1)^{1+1+1}) \\
&:= (22/2)^2 + (2 \times (2 \times 2222)) \\
&:= 3 \times ((3 \times 3 \times 333 + 3) + 3) \\
&:= (4 + 4)^4 + ((4 \times 4 + 4/4)^{4-4/4}) \\
&:= 5 + (((5 \times (5 \times 5 + 5) \times (55 + 5)) - 5/5) + 5) \\
&:= (66/6 + 66) \times (666/6 + 6) \\
&:= 77 \times ((777-7)/7 + 7) \\
&:= 8/8 + ((8888 - 8) + 8 \times (8 + 8)) \\
&:= 9 + (9 \times 999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9010 &:= 1 + ((11-1-1) \times (1 + (11-1)^{1+1+1})) \\
&:= (2^{2+2} + 2/2) \times ((22 \times (22 + 2)) + 2) \\
&:= 3/3 + ((3^3 \times 333) + (3 \times (3 + 3))) \\
&:= ((4-4/4)^4 + 4) \times ((444-4)/4 - 4) \\
&:= 5 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) + 5) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - ((6 + 6)/6 + 66)) \\
&:= 7/7 + (77 \times ((777-7)/7 + 7)) \\
&:= 8888 + ((888 + 88)/8) \\
&:= 9 + ((9 \times 999 + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9011 &:= 11 + ((11-1-1) \times (11-1)^{1+1+1}) \\
&:= 2 + ((2 \times (2 \times 2222)) + (22/2)^2) \\
&:= 3 \times 3 + ((3^3 \times 333) + 33/3) \\
&:= 4 + (((4-4/4)^4 \times 444/4) + 4 \times 4) \\
&:= 55/5 + (5 \times (5 \times 5 + 5) \times (55 + 5)) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - (66 + 6/6)) \\
&:= (7 + 7)/7 + (77 \times ((777-7)/7 + 7)) \\
&:= 8888 + (((888 + 88) + 8)/8) \\
&:= 9 + (9 \times 999 + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9012 &:= 1 + (11 + ((11-1-1) \times (11-1)^{1+1+1})) \\
&:= 2 \times ((2 \times ((2222-2) + 22)) + 22) \\
&:= 3 + ((3^3 \times 333) + (3 \times (3 + 3))) \\
&:= ((4 + 4) \times (4444/4 + 4 \times 4)) - 4 \\
&:= (5/5 + 5) \times ((5 \times 5 \times (55 + 5)) + ((5 + 5)/5)) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 66) \\
&:= 7 + (((7 + 7) \times ((7 \times (77 + 7 + 7)) + 7)) - (77/7)) \\
&:= 8 \times (8 + 8) + (8888 - 8 \times 8/(8 + 8)) \\
&:= 9 + (9 \times 999 + (99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9013 &:= 11 + (11 + (111 \times (11 - 1 - 1)^{1+1})) \\
&:= 22 + (222/2 \times (2/2 + 2)^{2+2}) \\
&:= 33 + ((3^3 \times 333) - 33/3) \\
&:= 4 + (((4 \times 4 + 4/4)^{4-4/4}) + (4 + 4)^4) \\
&:= 5 + ((555/5 \times (55 - (5 + 5)/5)) + 5^5) \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) - 66) + 6/6) \\
&:= 7 + (((7 + 7)/7 + 77) \times (((7 + 7)/7)^7 - (7 + 7))) \\
&:= 8 + ((8888 - (88/8)) + 8 \times (8 + 8)) \\
&:= 9 \times 999 + ((99 + 99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9014 &:= ((111 - (1 + 1)^{1+1+1+1})^{1+1}) - 11 \\
&:= ((2 \times 22 + 2) \times ((2^{2+2} - 2)^2)) - 2 \\
&:= 3^3 + ((3^3 \times 333) - (3/3 + 3)) \\
&:= (4 + 4)/4 \times (4444 + ((4^4 - 4)/4)) \\
&:= 5^5 + ((5 \times 555 - (55/5)) + 5^5) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - ((6 + 6)/6)^6) \\
&:= ((7 + 7) \times ((7 \times (77 + 7 + 7)) + 7)) - (7 + 7)/7 \\
&:= 8 \times (8 + 8) + (8888 - ((8 + 8)/8)) \\
&:= 9 \times 999 + (99 + 99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9015 &:= 1 + (((111 - (1 + 1)^{1+1+1+1})^{1+1}) - 11) \\
&:= ((2 \times 22 + 2) \times ((2^{2+2} - 2)^2)) - 2/2 \\
&:= 3^3 + ((3^3 \times 333) - 3) \\
&:= (4/4 + 4) \times ((4 \times (444 + 4)) + 44/4) \\
&:= (5 + 5 + 5) \times ((5^5 + 5)/5 - 5 \times 5) \\
&:= 6 + ((66/6 + 66) \times (666/6 + 6)) \\
&:= ((7 + 7) \times ((7 \times (77 + 7 + 7)) + 7)) - 7/7 \\
&:= 8 \times (8 + 8) + (8888 - 8/8) \\
&:= 9 + (((9 \times 999 - (9 + 9 + 9)/9)) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9016 &:= (1 + 1) \times ((1 + (11 + 11)) \times (1 + 1 + 1 + 11)^{1+1}) \\
&:= (2 \times 22 + 2) \times ((2^{2+2} - 2)^2) \\
&:= 3^3 + (((3^3 \times 333) - 3) + 3/3) \\
&:= (4 + 4) \times (4444/4 + 4 \times 4) \\
&:= 5 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) + (55/5)) \\
&:= (6/6 + 6) \times (6 \times 6 \times 6 \times 6 - ((6 + 6)/6 + 6)) \\
&:= (7 + 7) \times ((7 \times (77 + 7 + 7)) + 7) \\
&:= 8 \times (8 + 8) + 8888 \\
&:= (99 - 9/9) \times ((99/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9017 &:= ((11 - 1 - 1) \times (1 + 1 + (11 - 1)^{1+1+1})) - 1 \\
&:= 2/2 + ((2 \times 22 + 2) \times ((2^{2+2} - 2)^2)) \\
&:= 3^3 + ((3^3 \times 333) - 3/3) \\
&:= 4/4 + ((4 + 4) \times (4444/4 + 4 \times 4)) \\
&:= 5 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) + ((55 + 5)/5)) \\
&:= 66/6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 66) \\
&:= 7/7 + ((7 + 7) \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= 8/8 + (8888 + 8 \times (8 + 8)) \\
&:= 9 + (((9 \times 999 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9018 &:= (11 - 1 - 1) \times (1 + 1 + (11 - 1)^{1+1+1}) \\
&:= 2 + ((2 \times 22 + 2) \times ((2^{2+2} - 2)^2)) \\
&:= 3 \times 3 \times (3 \times 333 + 3) \\
&:= (4 + 4)/4 \times ((4^4 + 4)/4 + 4444) \\
&:= (55 - 5/5) \times ((555 + 5)/5 + 55) \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) - 66) + 6) \\
&:= (((77/7 + 77) + 7)^{(7+7)/7}) - 7 \\
&:= 8 \times (8 + 8) + (8888 + ((8 + 8)/8)) \\
&:= 9 + ((9 \times 999 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9019 &:= ((111 - 1) \times (1 + (11 - 1 - 1)^{1+1})) - 1 \\
&:= ((22 - 2/2)^{2/2+2}) - 22^2/2 \\
&:= 3^3 + ((3^3 \times 333) + 3/3) \\
&:= ((44 + 4) \times (444 - 4^4)) - 4/4 - 4 \\
&:= 5^5 + ((5 \times 555 - 5/5 - 5) + 5^5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) - (66/6 + 6) \\
&:= 7/7 + (((77/7 + 77) + 7)^{(7+7)/7}) - 7 \\
&:= 8 \times (8 + 8) + ((8888 - 8) + (88/8)) \\
&:= 9 + (((9 \times 999 + 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9020 &:= (111 - 1) \times (1 + (11 - 1 - 1)^{1+1}) \\
&:= 2 \times (2 \times (2222 + 22) + 22) \\
&:= 3 + (((3^3 \times 333) - 3/3) + 3^3) \\
&:= 44 \times (((4 + 4)^4 + 4)/(4 \times 4 + 4)) \\
&:= 5^5 + ((5 \times 555 - 5) + 5^5) \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) - ((6 + 6)/6)^6) + 6) \\
&:= 77/7 + (77 \times ((777 - 7)/7 + 7)) \\
&:= 88 + ((88/((8 + 8)/8)) + 8888) \\
&:= 9 + ((9 \times 999 + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9021 &:= 1 + ((111 - 1) \times (1 + (11 - 1 - 1)^{1+1})) \\
&:= ((222/2 - 2^{2+2})^2) - 2 - 2 \\
&:= 3 + ((3^3 \times 333) + 3^3) \\
&:= ((444/4 - 4 \times 4)^{(4+4)/4}) - 4 \\
&:= (5/5 + 5)^5 + (5 \times 5 \times 5 \times (5 + 5) - 5) \\
&:= 6 + (((66/6 + 66) \times (666/6 + 6)) + 6) \\
&:= 77 + ((7/7 + 7) \times (7777/7 + 7)) \\
&:= 8888 + ((8 - 8/8) \times (88/8 + 8)) \\
&:= 999/9 + (9 \times (999 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9022 &:= 1 + (1 + ((111 - 1) \times (1 + (11 - 1 - 1)^{1+1}))) \\
&:= 222 + 22 \times (22 - 2)^2 \\
&:= 3 + (((3^3 \times 333) + 3^3) + 3/3) \\
&:= ((44 + 4) \times (444 - 4^4)) - (4 + 4)/4 \\
&:= (5/5 + 5)^5 + (((5^5 + 5^5 + 5)/5) - 5) \\
&:= 6 + ((6/6 + 6) \times (6 \times 6 \times 6 \times 6 - ((6 + 6)/6 + 6))) \\
&:= 7 + (((7 + 7) \times ((7 \times (77 + 7 + 7)) + 7)) - 7/7) \\
&:= 8 + ((8888 - ((8 + 8)/8)) + 8 \times (8 + 8)) \\
&:= 9 + (((99 + 99)/9) + 9 \times 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9023 &:= ((111 - (1 + 1)^{1+1+1+1})^{1+1}) - 1 - 1 \\
&:= ((222/2 - 2^{2+2})^2) - 2 \\
&:= 33 + ((3^3 \times 333) - 3/3) \\
&:= ((44 + 4) \times (444 - 4^4)) - 4/4 \\
&:= 5^5 + ((5 \times 555 - ((5 + 5)/5)) + 5^5) \\
&:= (6/6 + 6) \times (6 \times 6 \times 6 \times 6 - (6/6 + 6)) \\
&:= 7 + ((7 + 7) \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= 8 + ((8888 - 8/8) + 8 \times (8 + 8)) \\
&:= 9 + ((99 + 99 + 9)/9 + 9 \times 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9024 &:= ((111 - (1 + 1)^{1+1+1+1})^{1+1}) - 1 \\
&:= 2 + (22 \times (22 - 2)^2 + 222) \\
&:= 33 + (3^3 \times 333) \\
&:= (44 + 4) \times (444 - 4^4) \\
&:= 5^5 + ((5 \times 555 - 5/5) + 5^5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) - 6 - 6 \\
&:= (7 \times 7 - 7/7) \times (777/7 + 77) \\
&:= 8 + (8888 + 8 \times (8 + 8)) \\
&:= 9 \times 999 + (99/((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9025 &:= (111 - (1 + 1)^{1+1+1+1})^{1+1} \\
&:= (222/2 - 2^{2+2})^2 \\
&:= 3/3 + ((3^3 \times 333) + 33) \\
&:= (444/4 - 4 \times 4)^{(4+4)/4} \\
&:= 5 \times ((5 \times 5 + 5) \times (55 + 5) + 5) \\
&:= ((66 - 6/6 - 6) + 6 \times 6)^{(6+6)/6} \\
&:= (((77/7 + 77) + 7)^{(7+7)/7}) \\
&:= (88 - 8/8 + 8)^{(8+8)/8} \\
&:= 9 + ((99 - 9/9) \times ((99/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9026 &:= 1 + ((111 - (1 + 1)^{1+1+1+1})^{1+1}) \\
&:= 2/2 + ((222/2 - 2^{2+2})^2) \\
&:= 3 + (((3^3 \times 333) - 3/3) + 33) \\
&:= 4/4 + ((444/4 - 4 \times 4)^{(4+4)/4}) \\
&:= (5/5 + 5)^5 + 5 \times 5 \times 5 \times (5 + 5) \\
&:= (6 - 66)/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) \\
&:= 7/7 + (((77/7 + 77) + 7)^{(7+7)/7}) \\
&:= 8/8 + ((88 - 8/8 + 8)^{(8+8)/8}) \\
&:= 9 + (((9 \times 999 - 9/9) + 9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9027 &:= 1 + (1 + ((111 - (1 + 1)^{1+1+1+1})^{1+1})) \\
&:= 2 + ((222/2 - 2^{2+2})^2) \\
&:= 3 + ((3^3 \times 333) + 33) \\
&:= 4 + (((44 + 4) \times (444 - 4^4)) - 4/4) \\
&:= (5/5 + 5)^5 + ((5^5 + 5^5 + 5)/5) \\
&:= 66 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 666/6) \\
&:= 77/7 + ((7 + 7) \times ((7 \times (77 + 7 + 7)) + 7)) \\
&:= 8 \times (8 + 8) + (8888 + (88/8)) \\
&:= 9 + (((9 \times 999 + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9028 &:= (1+1) \times ((1+11^{1+1}) \times (111/(1+1+1))) \\
&:= 2 + (((222/2 - 2^{2+2})^2) + 2/2) \\
&:= 3 + (((3^3 \times 333) + 33) + 3/3) \\
&:= 4 + ((44+4) \times (444 - 4^4)) \\
&:= (5/5+5)^5 + ((5+5)/5 \times (5^5+5)/5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6+6) - 6)) - ((6+6)/6+6) \\
&:= 7 + (((7/7+7) \times (7777/7+7)) + 77) \\
&:= 8 \times (8+8) + (((88+8)/8) + 8888) \\
&:= 9 + (((9 \times 999+9/9) + 9) + 9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9029 &:= ((11-1) \times ((1+1)^{11-1} - 11^{1+1})) - 1 \\
&:= 2 + (((222/2 - 2^{2+2})^2) + 2) \\
&:= 3^3 + ((3^3 \times 333) + 33/3) \\
&:= 4 + ((444/4 - 4 \times 4)^{(4+4)/4}) \\
&:= 5 + (((5 \times 555 - 5/5) + 5^5) + 5^5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6+6) - 6)) - 6/6 - 6 \\
&:= 777/7 + (7 \times (7+7) \times (77+7+7)) \\
&:= 8 \times 8 + ((8888 - (88/8)) + 88) \\
&:= 9 + (((9 \times 999+9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9030 &:= (11-1) \times ((1+1)^{11-1} - 11^{1+1}) \\
&:= (2^{2 \times (2+2)} + 2) \times ((22/2+22) + 2) \\
&:= 3 + (((3^3 \times 333) + 33) + 3) \\
&:= (44 - 4/4) \times (4^4 - ((4+4)/4 + 44)) \\
&:= 5 + ((5 \times 555 + 5^5) + 5^5) \\
&:= (6/6+6) \times (6 \times 6 \times 6 - 6) \\
&:= (77-7) \times (((7+7)/7)^7 + 7/7) \\
&:= (((8+8)/8) + 8) \times ((888 - 8/8+8) + 8) \\
&:= 9 + ((9 \times (999-9)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9031 &:= 1 + ((11-1) \times ((1+1)^{11-1} - 11^{1+1})) \\
&:= 2 + (((222/2 - 2^{2+2})^2) + 2) + 2) \\
&:= 3 + (((3^3 \times 333) + 33) + 3/3) + 3) \\
&:= 44 + (((4-4/4)^4 \times 444/4) - 4) \\
&:= 5 + (5 \times 5 \times 5 \times (5+5) + (5/5+5)^5) \\
&:= 6/6 + ((6/6+6) \times (6 \times 6 \times 6 - 6)) \\
&:= 7 + ((7 \times 7 - 7/7) \times (777/7+77)) \\
&:= 8 + (((8888 - 8/8) + 8 \times (8+8)) + 8) \\
&:= 99/9 \times (9 \times (9 \times 9+9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9032 &:= 1111 + ((111 - 11 - 11)^{1+1}) \\
&:= 2 \times (2 \times ((2+2+2)^2 + 2222)) \\
&:= 3 + (((3^3 \times 333) + 33/3) + 3^3) \\
&:= 4 + (((44+4) \times (444 - 4^4)) + 4) \\
&:= 5 + (((5^5 + 5^5 + 5)/5) + (5/5+5)^5) \\
&:= (6+6)/6 + ((6/6+6) \times (6 \times 6 \times 6 - 6)) \\
&:= 7 + (((77/7+77) + 7)^{(7+7)/7}) \\
&:= 8 + ((8888 + 8 \times (8+8)) + 8) \\
&:= (9-9/9) \times ((9999/9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9033 &:= 1 + (1111 + ((111 - 11 - 11)^{1+1})) \\
&:= 2 \times (2+2) + ((222/2 - 2^{2+2})^2) \\
&:= 3 \times 3 + ((3^3 \times 333) + 33) \\
&:= 4 + (((444/4 - 4 \times 4)^{(4+4)/4}) + 4) \\
&:= 5 + (((5+5)/5 \times (5^5+5)/5) + (5/5+5)^5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6+6) - 6)) - 6 \times 6/(6+6) \\
&:= 7 + (((77/7+77) + 7)^{(7+7)/7}) + 7/7) \\
&:= 8 + ((88 - 8/8+8)^{(8+8)/8}) \\
&:= 9 + ((99/(9+9+9)/9)) + 9 \times 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9034 &:= (1+1) \times (((11 \times (11 \times (1+111))) - 1)/(1+1+1)) \\
&:= 2 + (2 \times (2 \times ((2+2+2)^2 + 2222))) \\
&:= 3 \times 3 + (((3^3 \times 333) + 33) + 3/3) \\
&:= 4 + ((44 - 4/4) \times (4^4 - ((4+4)/4 + 44))) \\
&:= 5 + (((5 \times 555 - 5/5) + 5^5) + 5^5) + 5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6+6) - 6)) - (6+6)/6 \\
&:= 7 + (((7+7) \times ((7 \times (77+7+7)) + 7)) + (77/7)) \\
&:= 8 + (((88 - 8/8+8)^{(8+8)/8}) + 8/8) \\
&:= 9 + (((99 - 9/9) \times ((99/9) + 9 \times 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9035 &:= 11 + (((111 - (1+1)^{1+1+1+1})^{1+1}) - 1) \\
&:= 2 + (((222/2 - 2^{2+2})^2) + 2 \times (2+2)) \\
&:= 33 + ((3^3 \times 333) + 33/3) \\
&:= 44 + ((4-4/4)^4 \times 444/4) \\
&:= 5 + (((5 \times 555 + 5^5) + 5^5) + 5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6+6) - 6)) - 6/6 \\
&:= (77 \times ((7 \times 7 - 7) + 77)) - ((7+7)/7)^7 \\
&:= (8/8+8 \times 8) \times (8 \times (8+8) + (88/8)) \\
&:= 9 + (((9 \times 999 - 9/9) + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9036 &:= 11 + ((111 - (1+1)^{1+1+1+1})^{1+1}) \\
&:= 2 \times ((22-2) \times (222+2+2)) - 2) \\
&:= 3 \times (3 \times (3 \times 333+3) + 3) + 3) \\
&:= (4/4+4+4) \times (4 \times (4^4-4) - 4) \\
&:= 5 + ((5 \times 5 \times 5 \times (5+5) + (5/5+5)^5) + 5) \\
&:= 6 \times (6 \times 6 \times (6 \times 6+6) - 6) \\
&:= 77 + (((77-7) \times ((7+7)/7)^7) - 7/7) \\
&:= 88/8 + ((88 - 8/8+8)^{(8+8)/8}) \\
&:= 9 + (((9 \times 999+9) + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9037 &:= 1 + (11 + ((111 - (1+1)^{1+1+1+1})^{1+1})) \\
&:= ((22-2/2)^{2/2+2}) - (222+2) \\
&:= ((3+3) \times (3 \times 3+3)^3) - (33/3)^3 \\
&:= 4/4 + ((4/4+4+4) \times (4 \times (4^4-4) - 4)) \\
&:= (5/5+5)^5 + (((55+5^5) + 5^5)/5) \\
&:= 6/6 + (6 \times (6 \times 6 \times (6 \times 6+6) - 6)) \\
&:= 77 + ((77-7) \times ((7+7)/7)^7) \\
&:= (8-8/8) \times ((8+8) \times (88-8) + (88/8)) \\
&:= 9 + (((9 \times 999+9/9) + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9038 &:= ((11 + (11-1))^{1+1+1}) - (1 + (1+1) \times 111) \\
&:= (2 \times ((22-2) \times (222+2+2))) - 2 \\
&:= (3^3 \times (333+3)) - 3/3 - 33 \\
&:= ((4 \times 4+4) \times (444+4+4)) - (4+4)/4 \\
&:= (5/5+5)^5 + ((5+5)/5 \times ((5^5+5)/5+5)) \\
&:= (6+6)/6 + (6 \times (6 \times 6 \times (6 \times 6+6) - 6)) \\
&:= 7/7 + (((77-7) \times ((7+7)/7)^7) + 77) \\
&:= 8 \times 8 + ((8888 - ((8+8)/8)) + 88) \\
&:= 9 + (((9 \times 999+9/9) + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9039 &:= ((11 + (11-1))^{1+1+1}) - (1+1) \times 111 \\
&:= ((22-2/2)^{2/2+2}) - 222 \\
&:= (3^3 \times (333+3)) - 33 \\
&:= ((4 \times 4+4) \times (444+4+4)) - 4/4 \\
&:= (5 - (5+5)/5) \times (5^5 - (555+5)/5) \\
&:= (6 \times 6/(6+6)) + (6 \times (6 \times 6 \times (6 \times 6+6) - 6)) \\
&:= 7 + (((77/7+77) + 7)^{(7+7)/7}) + 7) \\
&:= 8 \times 8 + ((8888 - 8/8) + 88) \\
&:= 9 + (((9 \times (999-9)) + 999/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9040 &:= (1+1+111) \times ((11-1-1)^{1+1} - 1) \\
&:= 2 \times ((22-2) \times (222+2+2)) \\
&:= 3/3 + ((3^3 \times (333+3)) - 33) \\
&:= (4 \times 4+4) \times (444+4+4) \\
&:= (55/5+5) \times (555+5+5) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6+6) - 6)) - ((6+6)/6)) \\
&:= 7 \times 7 + (777/7 \times ((77/7-7) + 77)) \\
&:= 8 \times 8 + (8888+88) \\
&:= 9 \times 999 + ((9 \times 99-9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9041 &:= 1 + ((1+1+111) \times ((11-1-1)^{1+1} - 1)) \\
&:= 2 + (((22-2/2)^{2/2+2}) - 222) \\
&:= 3 + ((3^3 \times (333+3)) - (3/3+33)) \\
&:= 4/4 + ((4 \times 4+4) \times (444+4+4)) \\
&:= 5/5 + ((55/5+5) \times (555+5+5)) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6+6) - 6)) - 6/6) \\
&:= 77/7 + ((77-7) \times (((7+7)/7)^7 + 7/7)) \\
&:= 8 + (((88 - 8/8+8)^{(8+8)/8}) + 8) \\
&:= 9 \times 999 + ((9 \times 99+9)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9042 &:= (1+1) \times (11 \times (11 + ((1+1) \times (11-1))^{1+1})) \\
&:= 22 \times ((22-2)^2 + 22/2) \\
&:= 3 + ((3^3 \times (333+3)) - 33) \\
&:= (4+4)/4 + ((4 \times 4+4) \times (444+4+4)) \\
&:= (5 - (5+5)/5) \times (5^5 - 555/5) \\
&:= 6 + (6 \times (6 \times 6 \times (6 \times 6+6) - 6)) \\
&:= 7 + ((77 \times ((7 \times 7 - 7) + 77)) - ((7+7)/7)^7) \\
&:= 8 \times 8 + ((8888 + ((8+8)/8)) + 88) \\
&:= (9 \times (999+9+9)) - 999/9
\end{aligned}$$

- ▶ 9043 := $1 + ((1+1) \times (11 \times (11 + ((1+1) \times (11-1))^{1+1})))$
:= $2/2 + (22 \times ((22-2)^2 + 22/2))$
:= $3 + (((3^3 \times (333+3)) - 33) + 3/3)$
:= $4 + (((4 \times 4 + 4) \times (444 + 4 + 4)) - 4/4)$
:= $((5 \times 5 - 5/5 + 5) \times (5^5 - 5)/(5+5)) - 5$
:= $6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) + 6/6)$
:= $((7 \times 77 - 7) \times ((77 - 7)/7 + 7)) - 7/7$
:= $8 + ((8/8 + 8 \times 8) \times (8 \times (8+8) + (88/8)))$
:= $9 \times 9 \times 99 + (((9+9)/9)^{9/9+9})$
- ▶ 9044 := $(1+1) \times (1 + (11 \times (11 + ((1+1) \times (11-1))^{1+1})))$
:= $2 + (22 \times ((22-2)^2 + 22/2))$
:= $((3 \times (3+3) + 3)^3) - ((3+3)^3 + 3/3)$
:= $4 + ((4 \times 4 + 4) \times (444 + 4 + 4))$
:= $5 + ((5 - (5+5)/5) \times (5^5 - (555+5)/5))$
:= $6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) + ((6+6)/6))$
:= $(7 \times 77 - 7) \times ((77 - 7)/7 + 7)$
:= $(88/8 + 8) \times (88 \times 88/(8+8) - 8)$
:= $9 \times (999+9) - ((9/9+9+9) + 9)$
- ▶ 9045 := $(1+1+1) \times (1 + ((111-1)/(1+1))^{1+1} - 11)$
:= $22 + (((222/2 - 2^{2+2})^2) - 2)$
:= $3 \times (3 \times ((3 \times 333 + 3) + 3))$
:= $4 + (((4 \times 4 + 4) \times (444 + 4 + 4)) + 4/4)$
:= $5 + ((55/5 + 5) \times (555 + 5 + 5))$
:= $6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) + (6 \times 6/(6+6)))$
:= $7/7 + ((7 \times 77 - 7) \times ((77 - 7)/7 + 7))$
:= $(8/8 + 8) \times (8 \times 8 \times (8+8) - (88/8 + 8))$
:= $9 \times (999+9) - (9+9+9)$
- ▶ 9046 := $((111-1-1) \times (1 + (1 + (11-1-1))^{1+1})) - 1$
:= $2 + (22 \times ((22-2)^2 + 22/2)) + 2$
:= $3/3 + (3 \times (3 \times ((3 \times 333 + 3) + 3)))$
:= $4 + (((4 \times 4 + 4) \times (444 + 4 + 4)) + (4+4)/4)$
:= $(5/5 + 5)^5 + ((5 \times (5 \times 5 \times (5+5) + 5)) - 5)$
:= $((66-6)/6) + (6 \times (6 \times 6 \times (6 \times 6 + 6) - 6))$
:= $((7+7)/7)^7 + (7 \times (7+7) \times (77+7+7))$
:= $((88-8/8) \times (88+8+8)) - (8+8)/8$
:= $9/9 + (9 \times (999+9) - (9+9+9))$
- ▶ 9047 := $(111-1-1) \times (1 + (1 + (11-1-1))^{1+1})$
:= $22 + ((222/2 - 2^{2+2})^2)$
:= $3 + (((3 \times (3+3) + 3)^3) - ((3+3)^3 + 3/3))$
:= $4 + (((4 \times 4 + 4) \times (444 + 4 + 4)) - 4/4) + 4$
:= $5 + ((5 - (5+5)/5) \times (5^5 - 555/5))$
:= $66/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) - 6))$
:= $((7+7+7)/7)^7 + (7 \times (7+7) \times (77-7))$
:= $((88-8/8) \times (88+8+8)) - 8/8$
:= $9 \times 999 + ((999+9)/(9+9))$
- ▶ 9048 := $1 + ((111-1-1) \times (1 + (1 + (11-1-1))^{1+1})))$
:= $2 \times (2 \times (2222 + 2 \times (22-2)))$
:= $3 + (3 \times (3 \times ((3 \times 333 + 3) + 3)))$
:= $4 + (((4 \times 4 + 4) \times (444 + 4 + 4)) + 4)$
:= $(5 \times 5 - 5/5 + 5) \times (5^5 - 5)/(5+5)$
:= $6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) + 6)$
:= $(7/7 + 77) \times ((77/7 + 7 \times (7+7)) + 7)$
:= $(88 - 8/8) \times (88 + 8 + 8)$
:= $(9 - 9/9) \times (((9999 + 99)/9) + 9)$
- ▶ 9049 := $11111 - (1 + (1 + (1 + (11 + (1+1))^{11})))$
:= $2 + (((222/2 - 2^{2+2})^2) + 22)$
:= $3 + ((3 \times (3 \times ((3 \times 333 + 3) + 3))) + 3/3)$
:= $4 + (((4 \times 4 + 4) \times (444 + 4 + 4)) + 4/4) + 4$
:= $5^5 + (((5 \times (555 + 5)) - 5/5) + 5^5)$
:= $6 + (((6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) + 6/6) + 6)$
:= $7 \times 7 + ((7/7 + 7) \times ((7777/7 + 7) + 7))$
:= $8/8 + ((88 - 8/8) \times (88 + 8 + 8))$
:= $9 \times (9 \times 99 - 9) + 9999/9$
- ▶ 9050 := $11111 - (1 + (1 + (11 + (1+1))^{11}))$
:= $2 + (2 \times (2 \times (2222 + 2 \times (22-2))))$
:= $3^3 + (((3^3 \times 333) - 3/3) + 33)$
:= $(4+4)/4 \times (4444 + (4 - 4/4)^4)$
:= $5 \times (((5 \times 5 + 5) \times (55 + 5) + 5) + 5)$
:= $6 \times 6 \times 6 \times (6 \times 6 + 6) - ((66 + 66)/6)$
:= $((77 - 7)/7) \times (((7+7)/7)^7 + 777)$
:= $(8+8)/8 + ((88 - 8/8) \times (88 + 8 + 8))$
:= $9 \times (999+9) - ((99+99)/9)$
- ▶ 9051 := $11111 - (1 + (11 + (1+1))^{11})$
:= $2 + (((222/2 - 2^{2+2})^2) + 22) + 2$
:= $3^3 + ((3^3 \times 333) + 33)$
:= $44/4 + ((4 \times 4 + 4) \times (444 + 4 + 4))$
:= $(5/5 + 5)^5 + (5 \times (5 \times 5 \times (5+5) + 5))$
:= $(6/6 + 6) \times (6 \times 6 \times 6 \times 6 - (6 \times 6/(6+6)))$
:= $7 + ((7 \times 77 - 7) \times ((77 - 7)/7 + 7))$
:= $8 \times 8 + ((8888 + (88/8)) + 88)$
:= $9 \times (999+9) - ((99+9)/9 + 9)$
- ▶ 9052 := $11111 - (11 + (1+1))^{11}$
:= $2 \times (((2 \times (22+2))^2) + 2222)$
:= $((3/3 + 3)^3) + ((3^3 \times 333) - 3)$
:= $4^4 + (((4 \times 4 + 4) \times (444 - 4)) - 4)$
:= $5 + (((5 - (5+5)/5) \times (5^5 - 555/5)) + 5)$
:= $((6/6 + 6) \times (6 \times 6 \times 6 \times 6 - ((6+6)/6))) - 6$
:= $(77 \times ((7 \times 7 - 7) + 77)) - 777/7$
:= $(88 \times (888/8 - 8)) - (88 + 8)/8$
:= $9 \times (999+9) - (99/9 + 9)$
- ▶ 9053 := $1 + (11111 - (11 + (1+1))^{11})$
:= $2/2 + (2 \times (((2 \times (22+2))^2) + 2222))$
:= $(33/3)^3 + (3 \times (33 \times (3 \times 3^3 - 3)))$
:= $44 + (((4 \times 4 + 4/4)^{4-4/4}) + (4+4)^4)$
:= $5 + ((5 \times 5 - 5/5 + 5) \times (5^5 - 5)/(5+5))$
:= $6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) + (66/6))$
:= $(7 \times (7 \times (7 - 7 \times 7))) + 77777/7$
:= $88/8 \times (888 - (8/8 + 8 \times 8))$
:= $9 \times (999+9) - (9/9 + 9 + 9)$
- ▶ 9054 := $1 + (1 + (11111 - (11 + (1+1))^{11})))$
:= $2 + (2 \times (((2 \times (22+2))^2) + 2222))$
:= $3 \times ((3 \times ((3 \times 333 + 3) + 3)) + 3)$
:= $(4/4 + 4 + 4) \times (4 \times (4^4 - 4) - (4+4)/4)$
:= $55 + ((5 \times (5 \times 5 + 5) \times (55 + 5)) - 5/5)$
:= $6 \times 6 \times 6 \times (6 \times 6 + 6) - 6 - 6 - 6$
:= $(7 \times ((7 \times (7+7) \times (7+7)) - 77)) - 77/7$
:= $(8 - 88)/8 + (88 \times (888/8 - 8))$
:= $(9+9) \times (((9+9)/9)^9) - 9$
- ▶ 9055 := $1 + (1 + (1 + (11111 - (11 + (1+1))^{11})))$
:= $2^{2 \times (2+2)} + (22 \times (22-2)^2 - 2/2)$
:= $((3/3 + 3)^3) + (3^3 \times 333)$
:= $4^4 + (((4 \times 4 + 4) \times (444 - 4)) - 4/4)$
:= $55 + (5 \times (5 \times 5 + 5) \times (55 + 5))$
:= $6 \times 6 \times 6 \times (6 \times 6 + 6) - (66/6 + 6)$
:= $7 + ((7/7 + 77) \times ((77/7 + 7 \times (7+7)) + 7))$
:= $(88 \times (888/8 - 8)) - (8/8 + 8)$
:= $9/9 + ((9+9) \times (((9+9)/9)^9) - 9)$
- ▶ 9056 := $(1+1)^{1+1+1} \times (11 + (11 + (1111-1)))$
:= $2 \times (2 \times ((2222 - 2) + 2 \times 22))$
:= $3/3 + ((3^3 \times 333) + ((3/3 + 3)^3))$
:= $4 \times ((4/4 + 4) \times 444 + 44)$
:= $(55/5 + 5) \times (555 + (55/5))$
:= $(6 - 66)/6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 6)$
:= $(7/7 + 7) \times (((7777/7 + 7) + 7) + 7)$
:= $(88 \times (888/8 - 8)) - 8$
:= $(9+9)/9 + ((9+9) \times (((9+9)/9)^9) - 9)$
- ▶ 9057 := $11111 - ((1+1)^{11} + ((1+1) \times (1+1+1)))$
:= $((22/2 + 2)^2) + (2 \times (2 \times 2222))$
:= $33 + ((3^3 \times 333) + 33)$
:= $4/4 + (((4 \times 4 + 4) \times (444 - 4)) + 4^4)$
:= $(5 - (5+5)/5) \times ((5^5 - 555/5) + 5)$
:= $6 + ((6/6 + 6) \times (6 \times 6 \times 6 \times 6 - (6 \times 6/(6+6))))$
:= $(7 \times ((7 \times (7+7) \times (7+7)) - 77)) - (7/7 + 7)$
:= $8/8 + ((88 \times (888/8 - 8)) - 8)$
:= $9 \times 999 + ((9+9) \times 99/(9+9+9))$

$$\begin{aligned}
\blacktriangleright 9058 &:= 11111 - (1 + (1 + (1 + (1 + (1 + (1 + 1)^{11})))))) \\
&:= 222 + (((2 \times (2 \times 22 + 2)) + 2)^2) \\
&:= 3 + ((3^3 \times 333) + ((3/3 + 3)^3)) \\
&:= 4 + ((4/4 + 4 + 4) \times (4 \times (4^4 - 4) - (4 + 4)/4)) \\
&:= 5 + (((5 \times 5 - 5/5 + 5) \times (5^5 - 5)/(5 + 5)) + 5) \\
&:= (6/6 + 6) \times (6 \times 6 \times 6 \times 6 - ((6 + 6)/6)) \\
&:= (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 77)) - 7 \\
&:= (8 + 8)/8 + ((88 \times (888/8 - 8)) - 8) \\
&:= 9 + (9 \times (9 \times 99 - 9) + 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9059 &:= 11111 - (1 + (1 + (1 + (1 + (1 + 1)^{11})))) \\
&:= 2 + ((2 \times (2 \times 2222)) + ((22/2 + 2)^2)) \\
&:= ((3 - 33)/3) + ((3^3 \times (333 + 3)) - 3) \\
&:= 44444/4 - (4^4 \times (4 + 4) + 4) \\
&:= ((5 + 5 + 5) \times ((55 \times 55 - 5)/5)) - 5/5 \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - (6/6 + 6 + 6) \\
&:= 7/7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 77)) - 7) \\
&:= 88/8 + ((88 - 8/8) \times (88 + 8 + 8)) \\
&:= 9 \times (999 + 9) - (99 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9060 &:= 11111 - (1 + (1 + (1 + (1 + 1)^{11}))) \\
&:= 2 \times (2 \times (2222 + 2 \times 22) - 2) \\
&:= (3^3 \times (333 + 3)) - (3 \times 3 + 3) \\
&:= 4 + (((4 \times 4 + 4) \times (444 - 4)) + 4^4) \\
&:= (5 + 5 + 5) \times ((55 \times 55 - 5)/5) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - 6 - 6 \\
&:= 7 + (77777/7 + (7 \times (7 \times (7 - 7 \times 7)))) \\
&:= (88 \times (888/8 - 8)) - 8 \times 8/(8 + 8) \\
&:= 9 \times (999 + 9) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9061 &:= 11111 - (1 + (1 + (1 + 1)^{11})) \\
&:= (222 - 2/2) \times (2 \times (22 - 2) + 2/2) \\
&:= (3^3 \times (333 + 3)) - 33/3 \\
&:= ((4 - 4/4)^{4+4}) + (4 \times (4/4 + 4)^4) \\
&:= 5 + ((55/5 + 5) \times (555 + (55/5))) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - 66/6 \\
&:= (7 - 7/7 + 7) \times ((7 \times 7 \times (7 + 7)) + (77/7)) \\
&:= 8 + (88/8 \times (888 - (8/8 + 8 \times 8))) \\
&:= 9 \times (999 + 9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9062 &:= 11111 - (1 + (1 + 1)^{11}) \\
&:= (2 \times 2 \times (2222 + 2 \times 22)) - 2 \\
&:= ((3 - 33)/3) + (3^3 \times (333 + 3)) \\
&:= (4 - 44)/4 + ((4^4 - 4) \times (4 \times (4 + 4) + 4)) \\
&:= 5^5 + ((5^5 - (5^5 + 5)/(5 + 5)) + 5^5) \\
&:= (6 - 66)/6 + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= ((7 - 77)/7) + (7 \times (7 - 7/7)^{77/7-7}) \\
&:= (88 \times (888/8 - 8)) - (8 + 8)/8 \\
&:= 9 \times (999 + 9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9063 &:= 11111 - (1 + 1)^{11} \\
&:= 22222/2 - 2^{22/2} \\
&:= 3 \times ((3 \times (3 \times (333 + 3))) - 3) \\
&:= (4/4 + 4 + 4) \times (4 \times (4^4 - 4) - 4/4) \\
&:= 5^5 + (((5 - 5^5)/(5 + 5)) + 5^5) + 5^5 \\
&:= (((6 - 66) + 6)/6) + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 77)) - (7 + 7)/7 \\
&:= (88 \times (888/8 - 8)) - 8/8 \\
&:= 9 \times (999 + 9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9064 &:= 1 + (11111 - (1 + 1)^{11}) \\
&:= 2 \times 2 \times (2222 + 2 \times 22) \\
&:= 3 + ((3^3 \times (333 + 3)) - 33/3) \\
&:= ((4^4 - 4) \times (4 \times (4 + 4) + 4)) - 4 - 4 \\
&:= 55/5 \times (55 \times (5 + 5 + 5) - 5/5) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - ((6 + 6)/6 + 6) \\
&:= (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 77)) - 7/7 \\
&:= 88 \times (888/8 - 8) \\
&:= 9/9 + (9 \times (999 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9065 &:= 1 + (1 + (11111 - (1 + 1)^{11})) \\
&:= 2 + (22222/2 - 2^{22/2}) \\
&:= (3^3 \times (333 + 3)) - (3/3 + 3 + 3) \\
&:= 4 + (((4 - 4/4)^{4+4}) + (4 \times (4/4 + 4)^4)) \\
&:= 5 + ((5 + 5 + 5) \times ((55 \times 55 - 5)/5)) \\
&:= (6/6 + 6) \times (6 \times 6 \times 6 \times 6 - 6/6) \\
&:= 7 \times ((7 \times (7 + 7) \times (7 + 7)) - 77) \\
&:= 8/8 + (88 \times (888/8 - 8)) \\
&:= (9 + 9)/9 + (9 \times (999 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9066 &:= 1 + (1 + (1 + (11111 - (1 + 1)^{11}))) \\
&:= 2 + (2 \times 2 \times (2222 + 2 \times 22)) \\
&:= (3^3 \times (333 + 3)) - 3 - 3 \\
&:= ((4^4 - 4) \times (4 \times (4 + 4) + 4)) - ((4 + 4)/4 + 4) \\
&:= (5/5 + 5) \times ((5 \times 5 \times (55 + 5)) + (55/5)) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - 6 \\
&:= 7/7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 77)) \\
&:= (8 + 8)/8 + (88 \times (888/8 - 8)) \\
&:= ((9 + 9 + 9)/9) + (9 \times (999 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9067 &:= 1 + (1 + (1 + (1 + (11111 - (1 + 1)^{11})))) \\
&:= 2 + ((22222/2 - 2^{22/2}) + 2) \\
&:= 3/3 + ((3^3 \times (333 + 3)) - (3 + 3)) \\
&:= ((4^4 - 4) \times (4 \times (4 + 4) + 4)) - 4/4 - 4 \\
&:= (5/5 + 5)^5 + (((5/5 + 5)^{5-5/5}) - 5) \\
&:= 6/6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 6) \\
&:= (7 + 7)/7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 77)) \\
&:= 88/8 + ((88 \times (888/8 - 8)) - 8) \\
&:= ((9 - 99)/(9 + 9)) + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9068 &:= 1 + (1 + (1 + (1 + (1 + (11111 - (1 + 1)^{11})))))) \\
&:= 2 \times (2 \times (2222 + 2 \times 22) + 2) \\
&:= (3^3 \times (333 + 3)) - (3/3 + 3) \\
&:= ((4^4 - 4) \times (4 \times (4 + 4) + 4)) - 4 \\
&:= 5 + (((5 - 5^5)/(5 + 5)) + 5^5) + 5^5 \\
&:= (6 + 6)/6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 6) \\
&:= (77 \times (777/7 + 7)) - (77/7 + 7) \\
&:= 8 \times 8/(8 + 8) + (88 \times (888/8 - 8)) \\
&:= ((9 - 9 \times 9)/(9 + 9)) + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9069 &:= (1 + 1 + 1) \times (((111 - 1)/(1 + 1))^{1+1} - 1 - 1) \\
&:= 2 \times 22 + ((222/2 - 2^{2+2})^2) \\
&:= (3^3 \times (333 + 3)) - 3 \\
&:= 4/4 + (((4^4 - 4) \times (4 \times (4 + 4) + 4)) - 4) \\
&:= 5 + (55/5 \times (55 \times (5 + 5 + 5) - 5/5)) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - 6 \times 6/(6 + 6) \\
&:= 77/7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 77)) - 7) \\
&:= 888 + ((8 \times 8 \times 8 \times (8 + 8)) - (88/8)) \\
&:= 9 \times (999 + 9) - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9070 &:= ((1 + 111) \times (11 - 1 - 1)^{1+1}) - 1 - 1 \\
&:= ((22 + 2) \times ((22 - 2)^2 - 22)) - 2 \\
&:= 3/3 + ((3^3 \times (333 + 3)) - 3) \\
&:= ((4^4 - 4) \times (4 \times (4 + 4) + 4)) - (4 + 4)/4 \\
&:= (55 \times ((5 \times ((5 + 5)/5)^5) + 5)) - 5 \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - (6 + 6)/6 \\
&:= (7 \times (7 - 7/7)^{77/7-7}) - (7 + 7)/7 \\
&:= 8 + ((88 \times (888/8 - 8)) - ((8 + 8)/8)) \\
&:= 9 \times (999 + 9) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9071 &:= ((1 + 111) \times (11 - 1 - 1)^{1+1}) - 1 \\
&:= ((22 + 2) \times ((22 - 2)^2 - 22)) - 2/2 \\
&:= (3^3 \times (333 + 3)) - 3/3 \\
&:= ((4^4 - 4) \times (4 \times (4 + 4) + 4)) - 4/4 \\
&:= 5/5 + ((55 \times ((5 \times ((5 + 5)/5)^5) + 5)) - 5) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) - 6/6 \\
&:= (7 \times (7 - 7/7)^{77/7-7}) - 7/7 \\
&:= 8 + ((88 \times (888/8 - 8)) - 8/8) \\
&:= 9 \times (999 + 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9072 &:= (1 + 111) \times (11 - 1 - 1)^{1+1} \\
&:= (22 + 2) \times ((22 - 2)^2 - 22) \\
&:= 3^3 \times (333 + 3) \\
&:= (4^4 - 4) \times (4 \times (4 + 4) + 4) \\
&:= (5/5 + 5)^5 + ((5/5 + 5)^{5-5/5}) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 7 \times (7 - 7/7)^{77/7-7} \\
&:= 8 + (88 \times (888/8 - 8)) \\
&:= 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9073 &:= 1 + ((1 + 111) \times (11 - 1 - 1))^{1+1} \\
&:= 2/2 + ((22 + 2) \times ((22 - 2)^2 - 22)) \\
&:= 3/3 + (3^3 \times (333 + 3)) \\
&:= 4/4 + (((4^4 - 4) \times (4 \times (4 + 4) + 4)) \\
&:= (55 \times ((5 \times ((5 + 5)/5)^5) + 5)) - (5 + 5)/5 \\
&:= 6/6 + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 7/7 + (7 \times (7 - 7/7))^{7/7-7} \\
&:= 8 + ((88 \times (888/8 - 8)) + 8/8) \\
&:= 9/9 + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9074 &:= 11 + (11111 - (1 + 1))^{11} \\
&:= 2 + ((22 + 2) \times ((22 - 2)^2 - 22)) \\
&:= 3 + ((3^3 \times (333 + 3)) - 3/3) \\
&:= (4 + 4)/4 + (((4^4 - 4) \times (4 \times (4 + 4) + 4)) \\
&:= (55 \times ((5 \times ((5 + 5)/5)^5) + 5)) - 5/5 \\
&:= (6 + 6)/6 + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 7 \times 7 + (((77/7 + 77) + 7)^{(7+7)/7}) \\
&:= 8 + ((88 \times (888/8 - 8)) + ((8 + 8)/8)) \\
&:= (9 + 9)/9 + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9075 &:= (1 + 1 + 1) \times ((111 - 1)/(1 + 1))^{1+1} \\
&:= (2/2 + 2) \times (22/2 + 2 \times 22)^2 \\
&:= 3 + (3^3 \times (333 + 3)) \\
&:= 4 + (((4^4 - 4) \times (4 \times (4 + 4) + 4)) - 4/4) \\
&:= 55 \times ((5 \times ((5 + 5)/5)^5) + 5) \\
&:= (6 \times 6/(6 + 6)) + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 77/7 \times ((777 - 7/7) + 7 \times 7) \\
&:= 88/8 + (88 \times (888/8 - 8)) \\
&:= ((9 + 9 + 9)/9) + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9076 &:= 1 + (1 + 1 + 1) \times ((111 - 1)/(1 + 1))^{1+1} \\
&:= 2 \times ((2 \times (2^{22/2} + 222)) - 2) \\
&:= 3 + ((3^3 \times (333 + 3)) + 3/3) \\
&:= 4 + ((4^4 - 4) \times (4 \times (4 + 4) + 4)) \\
&:= 5/5 + (55 \times ((5 \times ((5 + 5)/5)^5) + 5)) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - ((6 + 6)/6)) \\
&:= 77/7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 77)) \\
&:= ((88 + 8)/8) + (88 \times (888/8 - 8)) \\
&:= 9 \times (999 + 9) + ((9 \times 9 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9077 &:= 1 + 1 + (1 + 1 + 1) \times ((111 - 1)/(1 + 1))^{1+1} \\
&:= 2 + ((2/2 + 2) \times (22/2 + 2 \times 22)^2) \\
&:= 3 + (((3^3 \times (333 + 3)) - 3/3) + 3) \\
&:= 4 + (((4^4 - 4) \times (4 \times (4 + 4) + 4)) + 4/4) \\
&:= (5 \times 5 - 5/5 + 5) \times (5^5 + 5)/(5 + 5) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 6/6) \\
&:= (77 \times (777/7 + 7)) - ((7 + 7)/7 + 7) \\
&:= ((8 + 8) \times (8 \times (8 \times 8 + 8) - 8)) - 88/8 \\
&:= 9 \times (999 + 9) + ((9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9078 &:= 1 + 1 + 1 + (1 + 1 + 1) \times ((111 - 1)/(1 + 1))^{1+1} \\
&:= (2 \times (2 \times (2^{22/2} + 222))) - 2 \\
&:= 3 + ((3^3 \times (333 + 3)) + 3) \\
&:= 4 + (((4^4 - 4) \times (4 \times (4 + 4) + 4)) + (4 + 4)/4) \\
&:= (5 - (5 + 5)/5) \times (55 \times 55 + 5/5) \\
&:= 6 + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= (77 \times (777/7 + 7)) - (7/7 + 7) \\
&:= (8/8 + 88) \times ((888 - 8)/8 - 8) \\
&:= 9 + (9 \times (999 + 9) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9079 &:= 1 + (1 + 1 + 1) \times (1 + ((111 - 1)/(1 + 1))^{1+1}) \\
&:= (2 \times (2 \times (2^{22/2} + 222))) - 2/2 \\
&:= 3 + (((3^3 \times (333 + 3)) + 3/3) + 3) \\
&:= 4 + (((4^4 - 4) \times (4 \times (4 + 4) + 4)) - 4/4) + 4) \\
&:= 5 + ((55 \times ((5 \times ((5 + 5)/5)^5) + 5)) - 5/5) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + 6/6) \\
&:= (77 \times (777/7 + 7)) - 7 \\
&:= 888 + ((8 \times 8 \times 8 \times (8 + 8)) - 8/8) \\
&:= 9 + (9 \times (999 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9080 &:= (1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} + (1 + 1) \times 111)) \\
&:= 2 \times (2 \times (2^{22/2} + 222)) \\
&:= 3 \times 3 + ((3^3 \times (333 + 3)) - 3/3) \\
&:= 4 + (((4^4 - 4) \times (4 \times (4 + 4) + 4)) + 4) \\
&:= 5 + (55 \times ((5 \times ((5 + 5)/5)^5) + 5)) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + ((6 + 6)/6)) \\
&:= 7/7 + ((77 \times (777/7 + 7)) - 7) \\
&:= 888 + (8 \times 8 \times 8 \times (8 + 8)) \\
&:= 9 + (9 \times (999 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9081 &:= (1 + 1 + 1) \times (1 + 1 + ((111 - 1)/(1 + 1))^{1+1}) \\
&:= 2/2 + (2 \times (2 \times (2^{22/2} + 222))) \\
&:= 3 \times ((3 \times (3 \times (333 + 3))) + 3) \\
&:= (4/4 + 4 + 4) \times (4 \times (4^4 - 4) + 4/4) \\
&:= 5 + ((55 \times ((5 \times ((5 + 5)/5)^5) + 5)) + 5/5) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + (6 \times 6/(6 + 6))) \\
&:= (((7 + 7)/7)^7 \times ((7/7 - 7) + 77)) - 7 \\
&:= 8/8 + ((8 \times 8 \times 8 \times (8 + 8)) + 888) \\
&:= 9 + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9082 &:= 11 + (((1 + 111) \times (11 - 1 - 1))^{1+1} - 1) \\
&:= 2 + (2 \times (2 \times (2^{22/2} + 222))) \\
&:= 3 \times 3 + ((3^3 \times (333 + 3)) + 3/3) \\
&:= (4 + 4)/4 \times ((444 + (4 + 4)^4) + 4/4) \\
&:= 5 + ((5 \times 5 - 5/5 + 5) \times (5^5 + 5)/(5 + 5)) \\
&:= ((66 - 6)/6) + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 7 + (77/7 \times ((777 - 7/7) + 7 \times 7)) \\
&:= 888 + ((8 \times 8 \times 8 \times (8 + 8)) + ((8 + 8)/8)) \\
&:= 9 + (9 \times (999 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9083 &:= 11 + ((1 + 111) \times (11 - 1 - 1))^{1+1} \\
&:= 2 + ((2 \times (2 \times (2^{22/2} + 222))) + 2/2) \\
&:= 33/3 + (3^3 \times (333 + 3)) \\
&:= 44/4 + ((4^4 - 4) \times (4 \times (4 + 4) + 4)) \\
&:= 5 + ((5 - (5 + 5)/5) \times (55 \times 55 + 5/5)) \\
&:= 66/6 + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 77/7 + (7 \times (7 - 7/7))^{7/7-7} \\
&:= 8 + ((88 \times (888/8 - 8)) + (88/8)) \\
&:= 99/9 + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9084 &:= 1 + (11 + ((1 + 111) \times (11 - 1 - 1))^{1+1}) \\
&:= 2 \times ((2 \times (2^{22/2} + 222)) + 2) \\
&:= 3 + ((3^3 \times (333 + 3)) + 3 \times 3) \\
&:= (4 \times ((4 + 4) \times (4^4 - 4) + 4^4)) - 4 \\
&:= 5 + (((55 \times ((5 \times ((5 + 5)/5)^5) + 5)) - 5/5) + 5) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + 6) \\
&:= (77 \times (777/7 + 7)) - (7 + 7)/7 \\
&:= ((88 + 8)/8) \times (8 \times (88 + 8) - (88/8)) \\
&:= (99 + 9)/9 + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9085 &:= 11 + (11 + (11111 - (1 + 1))^{11}) \\
&:= 22 + (22222/2 - 2^{22/2}) \\
&:= 3 + (((3^3 \times (333 + 3)) + 3 \times 3) + 3/3) \\
&:= 4 + ((4/4 + 4 + 4) \times (4 \times (4^4 - 4) + 4/4)) \\
&:= 5 + ((55 \times ((5 \times ((5 + 5)/5)^5) + 5)) + 5) \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) + 6/6) + 6) \\
&:= (77 \times (777/7 + 7)) - 7/7 \\
&:= 8 + (((8 + 8) \times (8 \times (8 \times 8 + 8) - 8)) - (88/8)) \\
&:= 9 \times (999 + 9) + ((99 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9086 &:= 11 \times ((1 + 1)^{11} - (1 + 11 \times 111)) \\
&:= 22 \times (((22 - 2)^2 + 22/2) + 2) \\
&:= 3 + ((3^3 \times (333 + 3)) + 33/3) \\
&:= (4 \times ((4 + 4) \times (4^4 - 4) + 4^4)) - (4 + 4)/4 \\
&:= 55/5 \times (55 \times (5 + 5 + 5) + 5/5) \\
&:= (6/6 + 6) \times (6 \times 6 \times 6 \times 6 + ((6 + 6)/6)) \\
&:= 77 \times (777/7 + 7) \\
&:= ((8 + 8) \times (8 \times (8 \times 8 + 8) - 8)) - (8 + 8)/8 \\
&:= 9 + (9 \times (999 + 9) + ((9 \times 9 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9087 &:= 1 + (11 \times ((1 + 1)^{11} - (1 + 11 \times 111))) \\
&:= 2/2 + (22 \times (((22 - 2)^2 + 22/2) + 2)) \\
&:= 3 \times 33 + ((3^3 \times 333) - 3) \\
&:= (4 \times ((4 + 4) \times (4^4 - 4) + 4^4)) - 4/4 \\
&:= (5 - (5 + 5)/5) \times ((55 \times 55 - 5/5) + 5) \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) + (6 \times 6/(6 + 6))) + 6) \\
&:= 7/7 + (77 \times (777/7 + 7)) \\
&:= ((8 + 8) \times (8 \times (8 \times 8 + 8) - 8)) - 8/8 \\
&:= 99 + (9 \times 999 - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9088 &:= 1 + (1 + (11 \times ((1+1)^{11} - (1+11 \times 111)))) \\
&:= 2 \times (2 \times ((2^{22/2} + 222) + 2)) \\
&:= 3^3 + ((3^3 \times (333 + 3)) - 33/3) \\
&:= 4 \times ((4+4) \times (4^4 - 4) + 4^4) \\
&:= (55/5 + 5) \times ((5^5 - 5 - 5)/5 - 55) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + ((66 - 6)/6)) \\
&:= ((7+7)/7)^7 \times ((7/7 - 7) + 77) \\
&:= (8+8) \times (8 \times (8 \times 8 + 8) - 8) \\
&:= 99 + (9 \times 999 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9089 &:= ((1 + (11 - 1)^{1+1})^{1+1}) - (1 + 1111) \\
&:= 2/2 + (2 \times (2 \times ((2^{22/2} + 222) + 2))) \\
&:= 3 \times 33 + ((3^3 \times 333) - 3/3) \\
&:= 4/4 + (4 \times ((4+4) \times (4^4 - 4) + 4^4)) \\
&:= ((55 + 5/5) + 5) \times (5 \times (5 \times 5 + 5) - 5/5) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + (66/6)) \\
&:= 7/7 + (((7+7)/7)^7 \times ((7/7 - 7) + 77)) \\
&:= 8/8 + ((8+8) \times (8 \times (8 \times 8 + 8) - 8)) \\
&:= 99 + (9 \times 999 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9090 &:= (11 - 1 - 1) \times ((11111 - 1)/11) \\
&:= 2 + (2 \times (2 \times ((2^{22/2} + 222) + 2))) \\
&:= 3 \times (3 \times 3 \times 333 + 33) \\
&:= (4+4)/4 + (4 \times ((4+4) \times (4^4 - 4) + 4^4)) \\
&:= (5+5+5) \times ((55 \times 55 + 5)/5) \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) + 6) + 6) \\
&:= 77/7 + ((77 \times (777/7 + 7)) - 7) \\
&:= (8+8)/8 + ((8+8) \times (8 \times (8 \times 8 + 8) - 8)) \\
&:= 99 + 9 \times 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9091 &:= (1 + ((11 - 1)^{1+1+1+1+1}))/11 \\
&:= 22/2 + (2 \times (2 \times (2^{22/2} + 222))) \\
&:= 3/3 + ((3^3 \times 333) + 3 \times 33) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) + 4^4)) - 4/4) \\
&:= 5 + (55/5 \times (55 \times (5+5+5) + 5/5)) \\
&:= 6 + (((6 \times 6 \times 6 \times (6 \times 6 + 6) + 6/6) + 6) + 6) \\
&:= 7 + ((77 \times (777/7 + 7)) - ((7+7)/7)) \\
&:= 888 + ((8 \times 8 \times 8 \times (8+8)) + (88/8)) \\
&:= 9/9 + (9 \times 999 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9092 &:= 1 + ((1 + ((11 - 1)^{1+1+1+1+1}))/11) \\
&:= 2 \times ((2 \times ((2^{22/2} + 222) + 2)) + 2) \\
&:= 3 + (((3^3 \times 333) - 3/3) + 3 \times 33) \\
&:= 4 + (4 \times ((4+4) \times (4^4 - 4) + 4^4)) \\
&:= 5 + ((5 - (5+5)/5) \times ((55 \times 55 - 5/5) + 5)) \\
&:= 6 + ((6/6 + 6) \times (6 \times 6 \times 6 \times 6 + ((6+6)/6))) \\
&:= 7 + ((77 \times (777/7 + 7)) - 7/7) \\
&:= 8 \times 8/(8+8) + ((8+8) \times (8 \times (8 \times 8 + 8) - 8)) \\
&:= 9 + (9 \times (999 + 9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9093 &:= 1 + (1 + ((1 + ((11 - 1)^{1+1+1+1+1}))/11)) \\
&:= (2/2 - 22) \times (22/2 - 2 \times 222) \\
&:= 3 + ((3^3 \times 333) + 3 \times 33) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) + 4^4)) + 4/4) \\
&:= (5 - (5+5)/5) \times ((55 \times 55 + 5/5) + 5) \\
&:= (6/6 + 6) \times (6 \times 6 \times 6 \times 6 + (6 \times 6/(6+6))) \\
&:= 7 + (77 \times (777/7 + 7)) \\
&:= 8 + (((8+8) \times (8 \times (8 \times 8 + 8) - 8)) - (88/8) + 8) \\
&:= 9 \times 999 + (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9094 &:= 1 + (1 + (1 + ((1 + ((11 - 1)^{1+1+1+1+1}))/11))) \\
&:= 22 + ((22 + 2) \times ((22 - 2)^2 - 22)) \\
&:= 3 + (((3^3 \times 333) + 3 \times 33) + 3/3) \\
&:= 4 + ((4 \times ((4+4) \times (4^4 - 4) + 4^4)) + (4+4)/4) \\
&:= 5 + (((55 + 5/5) + 5) \times (5 \times (5 \times 5 + 5) - 5/5)) \\
&:= ((66 + 66)/6) + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 7 + ((77 \times (777/7 + 7)) + 7/7) \\
&:= 8 + (((8+8) \times (8 \times (8 \times 8 + 8) - 8)) - ((8+8)/8)) \\
&:= 9 \times 999 + (((999 + 9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9095 &:= ((11 - 1 - 1) \times (1 + 1)^{11-1}) - 11^{1+1} \\
&:= (2 \times 2 \times (22 + 2))^2 - (22/2)^2 \\
&:= 3^3 + ((3^3 \times (333 + 3)) - (3/3 + 3)) \\
&:= ((4 - 4/4)^4 + 4) \times (444/4 - 4) \\
&:= 5 + ((5 + 5 + 5) \times ((55 \times 55 + 5)/5)) \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) + (66/6)) + 6) \\
&:= 7 + (((7+7)/7)^7 \times ((7/7 - 7) + 77)) \\
&:= 8 + (((8+8) \times (8 \times (8 \times 8 + 8) - 8)) - 8/8) \\
&:= 99 + (((9 \times 9 + 9)/(9+9)) + 9 \times 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9096 &:= (11 \times ((1+1)^{11} - 11 \times 111)) - 1 \\
&:= 2 \times ((2 \times (22 + 2) + 2)^2 + 2^{22/2}) \\
&:= 3^3 + ((3^3 \times (333 + 3)) - 3) \\
&:= (4+4)^4 + ((4+4) \times (4/4 + 4)^4) \\
&:= 5 \times 5 \times 55 + ((5/5 + 5)^5 - 55) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6 - 6 \\
&:= ((77 - 7)/7) + (77 \times (777/7 + 7)) \\
&:= 8 + ((8+8) \times (8 \times (8 \times 8 + 8) - 8)) \\
&:= 9 + (9 \times 999 - ((9+9+9)/9)) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9097 &:= 11 \times ((1+1)^{11} - 11 \times 111) \\
&:= 2 + ((2 \times 2 \times (22 + 2))^2 - (22/2)^2) \\
&:= 3^3 + (((3^3 \times (333 + 3)) - 3) + 3/3) \\
&:= 4/4 + (((4+4) \times (4/4 + 4)^4) + (4+4)^4) \\
&:= 55/5 \times (55 \times (5+5+5) + ((5+5)/5)) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 66/6 \\
&:= 77/7 + (77 \times (777/7 + 7)) \\
&:= 8 + (((8+8) \times (8 \times (8 \times 8 + 8) - 8)) + 8/8) \\
&:= 9 + (9 \times 999 - ((9+9)/9)) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9098 &:= 1 + (11 \times ((1+1)^{11} - 11 \times 111)) \\
&:= 222 + (2 \times ((2 \times (2222 - 2)) - 2)) \\
&:= 3^3 + ((3^3 \times (333 + 3)) - 3/3) \\
&:= (444/4 \times ((4 - 4/4)^4 + 4/4)) - 4 \\
&:= 5 + ((5 - (5+5)/5) \times ((55 \times 55 + 5/5) + 5)) \\
&:= (6 - 66)/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) \\
&:= (77 + 7)/7 + (77 \times (777/7 + 7)) \\
&:= 8 + (((8+8) \times (8 \times (8 \times 8 + 8) - 8)) + ((8+8)/8)) \\
&:= 9 + (9 \times 999 - 9/9) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9099 &:= (11 - 1 - 1) \times (11 + (11 - 1)^{1+1+1}) \\
&:= 2 + (((2 \times 2 \times (22 + 2))^2 - (22/2)^2) + 2) \\
&:= 3 \times (3 \times (3 \times (333 + 3) + 3)) \\
&:= 4 + (((4 - 4/4)^4 + 4) \times (444/4 - 4)) \\
&:= 5^5 + ((5^5 - (5 \times 55 + 5/5)) + 5^5) \\
&:= 6 + ((6/6 + 6) \times (6 \times 6 \times 6 \times 6 + (6 \times 6/(6+6)))) \\
&:= 7 + (((77 \times (777/7 + 7)) - 7/7) + 7) \\
&:= 88/8 + ((8+8) \times (8 \times (8 \times 8 + 8) - 8)) \\
&:= 9 + (9 \times 999 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9100 &:= (111 \times (1 + (11 - 1 - 1)^{1+1})) - 1 - 1 \\
&:= (22 - 2) \times (2 \times 222 + 22/2) \\
&:= 3^3 + ((3^3 \times (333 + 3)) + 3/3) \\
&:= (4/4 + 4) \times (4 \times 444 + 44) \\
&:= 5 \times ((5 \times (5 \times (5 \times (5 + 5 + 5)))) - 55) \\
&:= (6/6 + 6) \times ((6 \times 6 \times 6 \times 6 - ((6+6)/6)) + 6) \\
&:= 7 + ((77 \times (777/7 + 7)) + 7) \\
&:= ((88 + 8)/8) + ((8+8) \times (8 \times (8 \times 8 + 8) - 8)) \\
&:= 9 + (9 \times 999 + 99) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9101 &:= (111 \times (1 + (11 - 1 - 1)^{1+1})) - 1 \\
&:= (222 \times (2 \times (22 - 2) + 2/2)) - 2/2 \\
&:= (3^3 \times 333) + ((333 - 3)/3) \\
&:= 4/4 + ((4/4 + 4) \times (4 \times 444 + 44)) \\
&:= (5/5 + 5)^5 + (5 \times (5 \times 55 - (5+5))) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6/6 - 6 \\
&:= 7 + (((77 \times (777/7 + 7)) + 7/7) + 7) \\
&:= (88 + 8 + 8)/8 + ((8+8) \times (8 \times (8 \times 8 + 8) - 8)) \\
&:= 99 + (9 \times 999 + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9102 &:= 111 \times (1 + (11 - 1 - 1)^{1+1}) \\
&:= 222 \times (2 \times (22 - 2) + 2/2) \\
&:= 3 + ((3^3 \times (333 + 3)) + 3^3) \\
&:= 444/4 \times ((4 - 4/4)^4 + 4/4) \\
&:= 555/5 \times (((5+5)/5 + 55) + 5 \times 5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6 \\
&:= 777/7 \times ((77 - (7+7)/7) + 7) \\
&:= 888/8 \times (((8+8)/8) - 8) + 88 \\
&:= 9 \times 999 + 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9103 &:= 1 + (111 \times (1 + (11 - 1 - 1)^{1+1})) \\
&:= 2/2 + (222 \times (2 \times (22 - 2) + 2/2)) \\
&:= (3^3 \times 333) + ((333 + 3)/3) \\
&:= ((4^4 + 4) \times (4 \times (4 + 4) + 4)) - (4/4 + 4^4) \\
&:= ((5 - (5 + 5)/5) \times (5^5 + 5/5)) - 5 \times 55 \\
&:= 6/6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6) \\
&:= 7 + ((77 \times (777/7 + 7)) + ((77 - 7)/7)) \\
&:= 8 + (((8 + 8) \times (8 \times (8 \times 8 + 8) - 8)) - 8/8) + 8 \\
&:= 9 \times 999 + ((999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9104 &:= 1 + (1 + (111 \times (1 + (11 - 1 - 1)^{1+1}))) \\
&:= 2 + (222 \times (2 \times (22 - 2) + 2/2)) \\
&:= 33 + ((3^3 \times (333 + 3)) - 3/3) \\
&:= 4 \times (((4 + 4) \times (4^4 - 4) + 4^4) + 4) \\
&:= (55/5 + 5) \times ((5^5 - 5)/5 - 55) \\
&:= (6 + 6)/6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6) \\
&:= 7 + ((77 \times (777/7 + 7)) + (77/7)) \\
&:= 8 + (((8 + 8) \times (8 \times (8 \times 8 + 8) - 8)) + 8) \\
&:= 9 \times 999 + ((999 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9105 &:= ((11 - 1 - 1) \times (1 + 1)^{11-1}) - 111 \\
&:= (2 \times 2 \times (22 + 2))^2 - 222/2 \\
&:= 33 + (3^3 \times (333 + 3)) \\
&:= (4^4 \times (4 \times (4 + 4) + 4)) - 444/4 \\
&:= 5 + (((5^5 - 5 \times 55) + 5^5) + 5^5) \\
&:= (66 \times 6/(6 + 6)) + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 7 + ((77 \times (777/7 + 7)) + (77 + 7)/7) \\
&:= (8 \times (8 + 8) \times (8 \times 8 + 8)) - 888/8 \\
&:= ((9 + 9) \times ((9 + 9)/9)^9) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9106 &:= 1 + (((11 - 1 - 1) \times (1 + 1)^{11-1}) - 111) \\
&:= 222 + (2 \times ((2 \times 2222) - 2)) \\
&:= 3/3 + ((3^3 \times (333 + 3)) + 33) \\
&:= 4 + (444/4 \times ((4 - 4/4)^4 + 4/4)) \\
&:= 5 + ((5 \times (5 \times 55 - (5 + 5))) + (5/5 + 5)^5) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - (6 + 6)/6 \\
&:= 7 + (((77 \times (777/7 + 7)) - 7/7) + 7) + 7 \\
&:= ((8 - 888)/8) + (8 \times (8 + 8) \times (8 \times 8 + 8)) \\
&:= 9999 - (((9 + 9)/9) + 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9107 &:= (11 \times (1 + ((1 + 1)^{11} - 11 \times 111))) - 1 \\
&:= 2 + ((2 \times 2 \times (22 + 2))^2 - 222/2) \\
&:= (33/3)^3 + ((3 + 3)^{3-3/3+3}) \\
&:= (4 \times 44 \times (44 + 4 + 4)) - (44 + 4/4) \\
&:= (5/5 + 5)^5 + ((55/5)^{5-(5+5)/5}) \\
&:= (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6/6 \\
&:= 7 + (((77 \times (777/7 + 7)) + 7) + 7) \\
&:= 8 + (((8 + 8) \times (8 \times (8 \times 8 + 8) - 8)) + (88/8)) \\
&:= 9999 - (9 \times 99 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9108 &:= 11 \times (1 + ((1 + 1)^{11} - 11 \times 111)) \\
&:= (2^{2+2} + 2) \times (22^2 + 22) \\
&:= 33 \times (3 \times 3 \times 3^3 + 33) \\
&:= 44 \times (4^4 - ((44 + 4/4) + 4)) \\
&:= (5 - (5 + 5)/5) \times (55 \times 55 + (55/5)) \\
&:= 6 \times (6 \times 6 \times (6 \times 6 + 6) + 6) \\
&:= 77/7 \times (((7 + 7)/7) + 777) + 7 \times 7 \\
&:= (8/8 + 8) \times (8 \times 8 \times (8 + 8) - ((88 + 8)/8)) \\
&:= 99 \times ((99/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9109 &:= 1 + (11 \times (1 + ((1 + 1)^{11} - 11 \times 111))) \\
&:= 2/2 + ((2^{2+2} + 2) \times (22^2 + 22)) \\
&:= 3/3 + (33 \times (3 \times 3 \times 3^3 + 33)) \\
&:= 4 + ((4^4 \times (4 \times (4 + 4) + 4)) - 444/4) \\
&:= 5 + ((55/5 + 5) \times ((5^5 - 5)/5 - 55)) \\
&:= 6/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) \\
&:= 7 + (777/7 \times ((77 - (7 + 7)/7) + 7)) \\
&:= ((88 + 8) \times (88 - 8/8 + 8)) - 88/8 \\
&:= 9/9 + (99 \times ((99/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9110 &:= (1 + 1) \times (111 + ((1 + 1) \times ((1 + 1) \times 1111))) \\
&:= 222 + (2 \times (2 \times 2222)) \\
&:= 3 + (((3 + 3)^{3-3/3+3}) + (33/3)^3) \\
&:= (4 + 4)/4 \times (4444 + 444/4) \\
&:= (5 + 5) \times (((55 + 5^5)/5) + 5 \times 55) \\
&:= (6 + 6)/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) \\
&:= (7 \times ((7 - 7/7)^{77/7-7} + 7)) - 77/7 \\
&:= 8 + (888/8 \times (((8 + 8)/8) - 8) + 88) \\
&:= 9 + (9 \times 999 + (99/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9111 &:= 1111 + (((1 + 1) \times (11 - 1))^{1+1+1}) \\
&:= 2/2 + ((2 \times (2 \times 2222)) + 222) \\
&:= 3 + (33 \times (3 \times 3 \times 3^3 + 33)) \\
&:= 4444/4 + ((4 \times 4 + 4)^{4-4/4}) \\
&:= 555/5 + (5 \times (5 \times 5 + 5) \times (55 + 5)) \\
&:= (6 \times 6/(6 + 6)) + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) \\
&:= 7 + (((77 \times (777/7 + 7)) + (77/7)) + 7) \\
&:= ((8/8 + 8) \times 8888/8) - 888 \\
&:= 9 + (9 \times 999 + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9112 &:= 1 + (1111 + (((1 + 1) \times (11 - 1))^{1+1+1})) \\
&:= 2 + ((2 \times (2 \times 2222)) + 222) \\
&:= 3 + ((33 \times (3 \times 3 \times 3^3 + 33)) + 3/3) \\
&:= ((4^4 - 44) \times (44 - 4/4)) - 4 \\
&:= 5 + (((55/5)^{5-(5+5)/5}) + (5/5 + 5)^5) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - ((6 + 6)/6)) \\
&:= 7 \times 7 \times 7 + (777/7 \times ((7 + 7)/7 + 77)) \\
&:= ((88 + 8) \times (88 - 8/8 + 8)) - 8 \\
&:= 9 + (((999 + 9)/9) + 9 \times 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9113 &:= 11 + (111 \times (1 + (11 - 1 - 1)^{1+1})) \\
&:= 2 + (((2 \times (2 \times 2222)) + 222) + 2/2) \\
&:= (3^3 \times 333) + ((3^{3+3} + 3)/(3 + 3)) \\
&:= 4/4 + (((4^4 - 44) \times (44 - 4/4)) - 4) \\
&:= 5 + ((5 - (5 + 5)/5) \times (55 \times 55 + (55/5))) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6/6) \\
&:= (7 - 7/7 + 7) \times ((777 - 77) + 7/7) \\
&:= 88 + ((88 - 8/8 + 8)^{(8+8)/8}) \\
&:= 9 \times 999 + (999 + 99)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9114 &:= 1 + (11 + (111 \times (1 + (11 - 1 - 1)^{1+1}))) \\
&:= 222 + (2 \times ((2 \times 2222) + 2)) \\
&:= (33/3 + 3) \times (3 \times (3 + 3)^3 + 3) \\
&:= ((4^4 - 44) \times (44 - 4/4)) - (4 + 4)/4 \\
&:= 5^5 + ((555/5 \times (55 - 5/5)) - 5) \\
&:= 6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) \\
&:= 7 \times (((7 \times (7 + 7) \times (7 + 7)) - 77) + 7) \\
&:= 8 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) + ((8 - 888)/8)) \\
&:= (99 - 9/9) \times ((99 + 9)/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9115 &:= ((11 - 1 - 1) \times ((1 + 1)^{11-1} - 11)) - 1 - 1 \\
&:= 2/2 + ((2 \times ((2 \times 2222) + 2)) + 222) \\
&:= 3/3 + ((33/3 + 3) \times (3 \times (3 + 3)^3 + 3)) \\
&:= ((4^4 - 44) \times (44 - 4/4)) - 4/4 \\
&:= 5^5 + ((5 + 5) \times ((5^5 - 5)/5 - 5 \times 5)) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + 6/6) \\
&:= 7/7 + (7 \times (((7 \times (7 + 7) \times (7 + 7)) - 77) + 7)) \\
&:= 8 + (((8 + 8) \times (8 \times (8 \times 8 + 8) - 8)) + (88/8) + 8) \\
&:= 9 + (9999 - (((9 + 9)/9) + 9 \times 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9116 &:= ((11 - 1 - 1) \times ((1 + 1)^{11-1} - 11)) - 1 \\
&:= ((22 + 2) \times (22 - 2)^2) - 22^2 \\
&:= (3^3 \times 333) + (3 - 3/3 + 3)^3 \\
&:= (4^4 - 44) \times (44 - 4/4) \\
&:= (5/5 + 5)^5 + (5 \times (5 \times 55 - 5) - (5 + 5)) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + ((6 + 6)/6)) \\
&:= 7 + ((777/7 \times ((77 - (7 + 7)/7) + 7)) + 7) \\
&:= 8 + ((8/8 + 8) \times (8 \times 8 \times (8 + 8) - ((88 + 8)/8))) \\
&:= 9 + (9999 - (9 \times 99 + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9117 &:= (11 - 1 - 1) \times ((1 + 1)^{11-1} - 11) \\
&:= (2/2 + 2)^2 \times ((2^{22/2} - 22)/2) \\
&:= 3 \times (3 \times (3 \times 333 + 3) + 33) \\
&:= 4/4 + ((4^4 - 44) \times (44 - 4/4)) \\
&:= (5 - 5/5 + 5) \times ((5 - 5/5)^5 - 55/5) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + (6 \times 6/(6 + 6))) \\
&:= ((7 + 7)/7 + 7) \times (7777/7 - 7 \times (7 + 7)) \\
&:= (8/8 + 8) \times (8 \times 8 \times (8 + 8) - (88/8)) \\
&:= 9 + (99 \times ((99/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9118 &:= 1 + ((11 - 1 - 1) \times ((1 + 1)^{11-1} - 11)) \\
&:= 222 + (2 \times 2 \times (2222 + 2)) \\
&:= 3/3 + (3 \times (3 \times (3 \times 333 + 3) + 33)) \\
&:= (4 + 4)/4 + ((4^4 - 44) \times (44 - 4/4)) \\
&:= 5^5 + ((555/5 \times (55 - 5/5)) - 5/5) \\
&:= ((66 - 6)/6) + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) \\
&:= 7 \times 7 - ((7 + 7)/7) \times ((7 + 7) \times (7 + 7) - ((7 + 7)/7)) \\
&:= ((8/8 + 88) + 8) \times ((88 - ((8 + 8)/8)) + 8) \\
&:= 9 + ((99 \times ((99/9) + 9 \times 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9119 &:= 1 + (1 + ((11 - 1 - 1) \times ((1 + 1)^{11-1} - 11))) \\
&:= 2 + ((2/2 + 2)^2 \times ((2^{22/2} - 22)/2)) \\
&:= 3 + ((3^3 \times 333) + (3 - 3/3 + 3)^3) \\
&:= ((44/4 + 4) \times (4/4 + 4)^4) - 4^4 \\
&:= 5^5 + (555/5 \times (55 - 5/5)) \\
&:= 66/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) \\
&:= 77/7 \times ((77/7 \times (77 - 7/7)) - 7) \\
&:= ((88 + 8) \times (88 - 8/8 + 8)) - 8/8 \\
&:= 99/9 + (99 \times ((99/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9120 &:= (11 - 1) \times ((1 + 1)^{11-1} - (1 + 111)) \\
&:= 2 \times (2 \times (((2 \times (22 + 2))^2) - (22 + 2))) \\
&:= (3^3 \times (333 + 3 + 3)) - 33 \\
&:= 4 + ((4^4 - 44) \times (44 - 4/4)) \\
&:= (55/5 + 5) \times (5^5/5 - 55) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + 6) \\
&:= (7/7 + 7) \times ((7/7 + 7 + 7) \times (77 - 7/7)) \\
&:= (88 + 8) \times (88 - 8/8 + 8) \\
&:= 9 + ((9 \times 999 + 999/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9121 &:= 1 + ((11 - 1) \times ((1 + 1)^{11-1} - (1 + 111))) \\
&:= 2/2 + (2 \times (2 \times (((2 \times (22 + 2))^2) - (22 + 2)))) \\
&:= 3/3 + ((3^3 \times (333 + 3 + 3)) - 33) \\
&:= 4 + (((4^4 - 44) \times (44 - 4/4)) + 4/4) \\
&:= (5/5 + 5)^5 + (5 \times (5 \times 55 - 5) - 5) \\
&:= (6/6 + 6) \times ((6 \times 6 \times 6 \times 6 + 6/6) + 6) \\
&:= 7 \times ((7 - 7/7)^{77/7-7} + 7) \\
&:= 8/8 + ((88 + 8) \times (88 - 8/8 + 8)) \\
&:= 9 \times 9 \times 99 + (9999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9122 &:= 1 + (1 + ((11 - 1) \times ((1 + 1)^{11-1} - (1 + 111)))) \\
&:= 2 + (2 \times (2 \times (((2 \times (22 + 2))^2) - (22 + 2)))) \\
&:= (((3 + 3)^3 + 3)/3) \times (3 - 3/3 + 3)^3 - 3 \\
&:= 4 + (((4^4 - 44) \times (44 - 4/4)) + (4 + 4)/4) \\
&:= 5 + ((5 - 5/5 + 5) \times ((5 - 5/5)^5 - 55/5)) \\
&:= 6 + (((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + ((6 + 6)/6)) + 6) \\
&:= 7/7 + (7 \times ((7 - 7/7)^{77/7-7} + 7)) \\
&:= (8 + 8)/8 + ((88 + 8) \times (88 - 8/8 + 8)) \\
&:= 9 + ((999 + 99)/9 + 9 \times 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9123 &:= (1 + ((1 + 1) \times (((1 + 1) \times (1 + 111))^{1+1}))) / 11 \\
&:= (2/2 + 2) \times (((2 \times 2 \times (22 - 2) - 2)^2 - 2)/2) \\
&:= 3 + ((3^3 \times (333 + 3 + 3)) - 33) \\
&:= 4 + (((44/4 + 4) \times (4/4 + 4)^4) - 4^4) \\
&:= 5^5 + ((5 + 5)/5 \times (5^5 - (5 \times 5 \times 5 + 5/5))) \\
&:= 6 + (((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + (6 \times 6/(6 + 6))) + 6) \\
&:= ((77 - 7/7 + 7) \times (777 - 7/7) - 7) \\
&:= 88 + ((8/8 + 8 \times 8) \times (8 \times (8 + 8) + (88/8))) \\
&:= 9 + ((99 - 9/9) \times ((99 + 9)/9 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9124 &:= 1 + (1 + ((1 + 1) \times (((1 + 1) \times (1 + 111))^{1+1}))) / 11 \\
&:= 2 \times ((2 \times (((2 \times (22 + 2))^2) - 22)) - 2) \\
&:= 3 + (((3^3 \times (333 + 3 + 3)) - 33) + 3/3) \\
&:= 4 + (((4^4 - 44) \times (44 - 4/4)) + 4) \\
&:= 5 + ((555/5 \times (55 - 5/5)) + 5^5) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + ((66 - 6)/6)) \\
&:= 7 \times 7 + (77/7 \times ((777 - 7/7) + 7 \times 7)) \\
&:= 8 \times 8 \times (8 + 8) + (((8 + 8)/8 + 88)^{(8+8)/8}) \\
&:= 9 \times (9 \times 99 + 9) + (((9 + 9)/9)^{9/9+9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9125 &:= ((11 - 1 - 1) \times (1 + (1 + 1)^{11-1} - 11)) - 1 \\
&:= 2/2 + (2 \times (2 \times (((2 \times (22 + 2))^2) - 22)) - 2) \\
&:= (((3 + 3)^3 + 3)/3) \times (3 - 3/3 + 3)^3 \\
&:= 4^4 + (((4 \times 4 + 4) \times 444) - 44/4) \\
&:= 5 \times ((5 \times 5 + 5) \times (55 + 5) + 5 \times 5) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + (66/6)) \\
&:= 77/7 + (7 \times (((7 \times (7 + 7) \times (7 + 7)) - 77) + 7)) \\
&:= 8 + ((8/8 + 8) \times (8 \times 8 \times (8 + 8) - (88/8))) \\
&:= 9 + ((9999 - (9 \times 99 + 9/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9126 &:= (11 - 1 - 1) \times (1 + (1 + 1)^{11-1} - 11) \\
&:= (2 + 2 + 2) \times ((2 \times (22 - 2) - 2/2)^2) \\
&:= 3 \times (3 \times ((3 \times (333 + 3) + 3) + 3)) \\
&:= (4/4 + 4 + 4) \times ((4 - 44)/4 + 4 \times 4^4) \\
&:= (5/5 + 5)^5 + 5 \times (5 \times 55 - 5) \\
&:= (6/6 + 6 + 6) \times (666 + 6 \times 6) \\
&:= (7/7 + 77) \times ((777 - 7)/7 + 7) \\
&:= (8/8 + 8) \times ((8 - 88)/8 + 8 \times 8 \times (8 + 8)) \\
&:= 9 + ((99 \times ((99/9) + 9 \times 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9127 &:= 1 + ((11 - 1 - 1) \times (1 + (1 + 1)^{11-1} - 11)) \\
&:= (2 \times (2 \times (((2 \times (22 + 2))^2) - 22))) - 2/2 \\
&:= 3/3 + ((3^3 \times (333 - 3)) + (3 + 3)^3) \\
&:= 44/4 + ((4^4 - 44) \times (44 - 4/4)) \\
&:= 5/5 + (5 \times (5 \times 55 - 5) + (5/5 + 5)^5) \\
&:= 6 + ((6/6 + 6) \times ((6 \times 6 \times 6 \times 6 + 6/6) + 6)) \\
&:= ((7/7 + 77) \times (777/7 + 7)) - 77 \\
&:= (8 \times (8 + 8) \times (8 \times 8 + 8)) - (8/8 + 88) \\
&:= 9 + (((99 \times ((99/9) + 9 \times 9)) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9128 &:= 11 + ((11 - 1 - 1) \times ((1 + 1)^{11-1} - 11)) \\
&:= 2 \times (2 \times (((2 \times (22 + 2))^2) - 22)) \\
&:= (3/3 + 3 + 3) \times ((33/3)^3 - 3^3) \\
&:= 4^4 + (((4 \times 4 + 4) \times 444) - (4 + 4)) \\
&:= (55 \times (555/5 + 55)) - (5 + 5)/5 \\
&:= (6/6 + 6) \times ((6 \times 6 \times 6 \times 6 + ((6 + 6)/6)) + 6) \\
&:= 7 + (7 \times ((7 - 7/7)^{77/7-7} + 7)) \\
&:= (8 \times (8 + 8) \times (8 \times 8 + 8)) - 88 \\
&:= 9 + ((99 \times ((99/9) + 9 \times 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9129 &:= ((11 - 1) \times (1 + 1)^{11-1}) - 1111 \\
&:= 2/2 + (2 \times (2 \times (((2 \times (22 + 2))^2) - 22))) \\
&:= 3 + ((3^3 \times (333 - 3)) + (3 + 3)^3) \\
&:= 4^4 \times (44 - 4) - 4444/4 \\
&:= (55 \times (555/5 + 55)) - 5/5 \\
&:= 6 \times 6 + ((6/6 + 6) \times (6 \times 6 \times 6 \times 6 + (6 \times 6/(6 + 6)))) \\
&:= ((77 - 7)/7 + 7) \times (7 \times 77 - ((7 + 7)/7)) \\
&:= 8/8 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - 88) \\
&:= 9 \times 9 \times 99 + ((9999 - 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9130 &:= (11 - 1) \times ((1 + 1)^{11-1} - 111) \\
&:= 2 + (2 \times (2 \times (((2 \times (22 + 2))^2) - 22))) \\
&:= 3333/3 + (3 \times (3 \times (33 \times 3^3))) \\
&:= (44 - 4)/4 \times (4 \times 4^4 - 444/4) \\
&:= 55 \times (555/5 + 55) \\
&:= ((6 + 6)/6)^6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 6) \\
&:= (77 - 7/7 + 7) \times (777 - 7)/7 \\
&:= (8 + 8)/8 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - 88) \\
&:= 9 \times 9 \times 99 + 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9131 &:= 1 + ((11 - 1) \times ((1 + 1)^{11-1} - 111)) \\
&:= (22 + 2/2) \times ((22 - 2)^2 - (2/2 + 2)) \\
&:= 3 + ((3/3 + 3 + 3) \times ((33/3)^3 - 3^3)) \\
&:= 4^4 + ((4/4 + 4) \times (4 \times 444 - 4/4)) \\
&:= 5 + (5 \times (5 \times 55 - 5) + (5/5 + 5)^5) \\
&:= ((66/6 + 6) + 6) \times (6 \times 66 + 6/6) \\
&:= 7/7 + ((77 - 7/7 + 7) \times (777 - 7)/7) \\
&:= 88/8 + ((88 + 8) \times (88 - 8/8 + 8)) \\
&:= 9 \times 9 \times 99 + (9999 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9132 &:= 1 + (1 + ((11 - 1) \times ((1 + 1)^{11-1} - 111))) \\
&:= 2 \times (2 \times (((2 \times (22 + 2))^2) - 22)) + 2 \\
&:= 3^3 + ((3^3 \times (333 + 3)) + 33) \\
&:= 4^4 + (((4 \times 4 + 4) \times 444) - 4) \\
&:= 5^5 + ((5^5 - ((5 - (5 + 5)/5)^5)) + 5^5) \\
&:= 66 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 6) \\
&:= 77/7 + (7 \times ((7 - 7/7)^{77/7-7} + 7)) \\
&:= ((88 + 8)/8) \times ((8 \times (88 + 8) - 8) + 8/8) \\
&:= 9 \times 9 \times 99 + (((9999 + 9) + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9133 &:= 1 + (1 + (1 + ((11 - 1) \times ((1 + 1)^{11-1} - 111)))) \\
&:= 22^2 + (((2 \times (2 \times 22 + 2)) + 2/2)^2) \\
&:= ((3/3 + 3)^3) + ((3^3 \times (333 + 3)) - 3) \\
&:= 4 + (4^4 \times (44 - 4) - 4444/4) \\
&:= 5 + ((55 \times (555/5 + 55)) - ((5 + 5)/5)) \\
&:= 66 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) - 6) + 6/6) \\
&:= 7 + ((7/7 + 77) \times ((777 - 7)/7 + 7)) \\
&:= (88 \times (88 + 8 + 8)) - (88/8 + 8) \\
&:= (9 \times (999 + 9 + 9)) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9134 &:= (1 + 1) \times (1111 + ((1 + 1) \times ((1 + 11)^{1+1+1}))) \\
&:= 2 + (2 \times ((2 \times ((2 \times (22 + 2))^2) - 22) + 2)) \\
&:= 3 + (((3/3 + 3 + 3) \times ((33/3)^3 - 3^3)) + 3) \\
&:= 4^4 + (((4 \times 4 + 4) \times 444) - (4 + 4)/4) \\
&:= 5 + ((55 \times (555/5 + 55)) - 5/5) \\
&:= 6 + ((6/6 + 6) \times ((6 \times 6 \times 6 \times 6 + ((6 + 6)/6)) + 6)) \\
&:= 7 \times 7 + ((77 \times (777/7 + 7)) - 7/7) \\
&:= (8 - 88)/8 + ((88 \times (88 + 8 + 8)) - 8) \\
&:= (9 \times (999 + 9 + 9)) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9135 &:= (11 - 1 - 1) \times (1 + 1 + (1 + 1)^{11-1} - 11) \\
&:= (2 \times 2 \times (22 + 2))^2 - (2/2 + 2)^{2+2} \\
&:= 3 \times ((3 \times ((3 \times (333 + 3) + 3) + 3)) + 3) \\
&:= 4^4 + (((4 \times 4 + 4) \times 444) - 4/4) \\
&:= 5 + (55 \times (555/5 + 55)) \\
&:= 66 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - (6 \times 6/(6 + 6))) \\
&:= 7 \times 7 + (77 \times (777/7 + 7)) \\
&:= (8/8 + 8) \times (8 \times 8 \times (8 + 8) - (8/8 + 8)) \\
&:= 9 \times (((9 + 9)/9)^{9/9+9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9136 &:= 1 + ((11 - 1 - 1) \times (1 + 1 + (1 + 1)^{11-1} - 11)) \\
&:= 2 \times (2 \times (((2 \times (22 + 2))^2) - 22) + 2) \\
&:= ((3/3 + 3)^3) + (3^3 \times (333 + 3)) \\
&:= 4 \times (44 \times (44 + 4 + 4) - 4) \\
&:= (55/5 + 5) \times ((5^5 + 5)/5 - 55) \\
&:= ((6 + 6)/6)^6 + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 7/7 + ((77 \times (777/7 + 7)) + 7 \times 7) \\
&:= (88 \times (88 + 8 + 8)) - 8 - 8 \\
&:= 9/9 + (9 \times (((9 + 9)/9)^{9/9+9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9137 &:= 11 + ((11 - 1 - 1) \times (1 + (1 + 1)^{11-1} - 11)) \\
&:= 2 + ((2 \times 2 \times (22 + 2))^2 - (2/2 + 2)^{2+2}) \\
&:= 3 \times 3 + ((3/3 + 3 + 3) \times ((33/3)^3 - 3^3)) \\
&:= 4/4 + (((4 \times 4 + 4) \times 444) + 4^4) \\
&:= 5 + (((5^5 - ((5 - (5 + 5)/5)^5)) + 5^5) + 5^5) \\
&:= 66 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 6/6) \\
&:= 7 + ((77 - 7/7 + 7) \times (777 - 7)/7) \\
&:= 8/8 + ((88 \times (88 + 8 + 8)) - (8 + 8)) \\
&:= (9 + 9)/9 + (9 \times (((9 + 9)/9)^{9/9+9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9138 &:= ((11 + (11 - 1))^{1+1+1}) - (1 + (1 + 11^{1+1})) \\
&:= 2 + (2 \times (2 \times (((2 \times (22 + 2))^2) - 22) + 2)) \\
&:= 33 + ((3^3 \times (333 + 3)) + 33) \\
&:= 4^4 + (((4 \times 4 + 4) \times 444) + (4 + 4)/4) \\
&:= (5/5 + 5) \times ((5 \times (5 \times (55 + 5) + 5)) - ((5 + 5)/5)) \\
&:= 66 + 6 \times 6 \times 6 \times (6 \times 6 + 6) \\
&:= 7777 + ((7 \times (7 + 7) \times (7 + 7)) - (77/7)) \\
&:= (8 + 8)/8 + ((88 \times (88 + 8 + 8)) - (8 + 8)) \\
&:= 9 + (((9999 - 9)/9) + 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9139 &:= ((11 + (11 - 1))^{1+1+1}) - (1 + 11^{1+1}) \\
&:= (22 - (2/2 + 2)) \times (22^2 - (2/2 + 2)) \\
&:= 3 + ((3^3 \times (333 + 3)) + ((3/3 + 3)^3)) \\
&:= 4 + (((4 \times 4 + 4) \times 444) - 4/4) + 4^4 \\
&:= ((5 + 5 + 5) \times (555 + 55)) - 55/5 \\
&:= 66 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + 6/6) \\
&:= ((7 \times (7 + 7) - ((7 + 7)/7))^{(7+7)/7}) - 77 \\
&:= (88 + 8 + 8)/8 \times (8 \times 88 - 8/8) \\
&:= 9 + (9999/9 + 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9140 &:= (11 - 1) \times (1 + ((1 + 1)^{11-1} - 111)) \\
&:= 2 \times (2 \times (((2 \times (22 + 2))^2) - 22) + 2) \\
&:= (3/3 + 3) \times ((3 \times (3^{3+3} + 33)) - 3/3) \\
&:= 4 + (((4 \times 4 + 4) \times 444) + 4^4) \\
&:= 5 + ((55 \times (555/5 + 55)) + 5) \\
&:= 66 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + ((6 + 6)/6)) \\
&:= 7 + (((7/7 + 77) \times ((777 - 7)/7 + 7)) + 7) \\
&:= (88 \times (88 + 8 + 8)) - (88 + 8)/8 \\
&:= 9 + ((9999 + 9)/9 + 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9141 &:= 1 + ((11 - 1) \times (1 + (1 + 1)^{11-1} - 111)) \\
&:= 2 + ((22 - (2/2 + 2)) \times (22^2 - (2/2 + 2))) \\
&:= 33 \times (((3^{3+3} + 3)/3) + 33) \\
&:= (4 \times 44 \times (44 + 4 + 4)) - 44/4 \\
&:= 5 \times 5 \times 55 + ((5/5 + 5)^5 - (5 + 5)) \\
&:= 66 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + (6 \times 6/(6 + 6))) \\
&:= 7 + (((77 \times (777/7 + 7)) - 7/7) + 7 \times 7) \\
&:= (88 \times (88 + 8 + 8)) - 88/8 \\
&:= (9 \times (999 + 9 + 9)) - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9142 &:= ((1 + 1 + 111) \times (11 - 1 - 1)^{1+1}) - 11 \\
&:= ((2 + 2 + 2)^2 \times (2^{2 \times (2+2)} - 2)) - 2 \\
&:= (3^3 \times (333 + 3 + 3)) - 33/3 \\
&:= 4^4 + ((4 + 4)/4 \times (4444 - 4/4)) \\
&:= 5/5 + (((5/5 + 5)^5 - (5 + 5)) + 5 \times 5 \times 55) \\
&:= 6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + ((6 + 6)/6)^6) \\
&:= 7 + ((77 \times (777/7 + 7)) + 7 \times 7) \\
&:= (8 - 88)/8 + (88 \times (88 + 8 + 8)) \\
&:= (9 \times (999 + 9 + 9)) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9143 &:= 1 + (((1 + 1 + 111) \times (11 - 1 - 1)^{1+1}) - 11) \\
&:= (222 + 2/2) \times (2 \times (22 - 2) + 2/2) \\
&:= ((3 \times 3 + 3) \times (3^{3+3} + 33)) - 3/3 \\
&:= 4^4 + (((4 + 4) \times 4444/4) - 4/4) \\
&:= 5^5 + ((5 + 5)/5 \times (5^5 - (555/5 + 5))) \\
&:= (6 \times ((6 \times 6 \times (6 \times 6 + 6) + 6) + 6)) - 6/6 \\
&:= 7 + (((77 \times (777/7 + 7)) + 7 \times 7) + 7/7) \\
&:= (88 \times (88 + 8 + 8)) - (8/8 + 8) \\
&:= (9 \times (999 + 9 + 9)) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9144 &:= (1 + 1 + 1) \times ((1 + 1)^{11} + (11 - 1)^{1+1+1}) \\
&:= (2 + 2 + 2)^2 \times (2^{2 \times (2+2)} - 2) \\
&:= (3 \times 3 + 3) \times (3^{3+3} + 33) \\
&:= 4^4 + ((4 + 4) \times 4444/4) \\
&:= (5/5 + 5) \times ((5 \times (5 \times (55 + 5) + 5)) - 5/5) \\
&:= 6 \times ((6 \times 6 \times (6 \times 6 + 6) + 6) + 6) \\
&:= (77 + 7)/7 \times (777 - (7/7 + 7 + 7)) \\
&:= (88 \times (88 + 8 + 8)) - 8 \\
&:= (9 \times (999 + 9 + 9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9145 &:= 1 + ((1 + 1 + 1) \times ((1 + 1)^{11} + (11 - 1)^{1+1+1})) \\
&:= 2/2 + ((2 + 2 + 2)^2 \times (2^{2 \times (2+2)} - 2)) \\
&:= 3/3 + ((3 \times 3 + 3) \times (3^{3+3} + 33)) \\
&:= 4 + ((4 \times 44 \times (44 + 4 + 4)) - 44/4) \\
&:= 5 \times (5^5 - ((5/5 + 5)^{5-5/5})) \\
&:= 6/6 + (6 \times ((6 \times 6 \times (6 \times 6 + 6) + 6) + 6)) \\
&:= (77 \times ((7 \times 7 - 7) + 77)) - (77/7 + 7) \\
&:= 8/8 + ((88 \times (88 + 8 + 8)) - 8) \\
&:= 9/9 + ((9 \times (999 + 9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9146 &:= 1 + (1 + ((1 + 1 + 1) \times ((1 + 1)^{11} + (11 - 1)^{1+1+1}))) \\
&:= 2 + ((2 + 2 + 2)^2 \times (2^{2 \times (2+2)} - 2)) \\
&:= 3 + (((3 \times 3 + 3) \times (3^{3+3} + 33)) - 3/3) \\
&:= 4^4 + ((4 + 4)/4 \times (4444 + 4/4)) \\
&:= 5 \times 5 \times 55 + ((5/5 + 5)^5 - 5) \\
&:= (6 + 6)/6 + (6 \times ((6 \times 6 \times (6 \times 6 + 6) + 6) + 6)) \\
&:= ((77 - 7)/7 + 7) \times (7 \times 77 - 7/7) \\
&:= (8 + 8)/8 + ((88 \times (88 + 8 + 8)) - 8) \\
&:= (9 + 9)/9 + ((9 \times (999 + 9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9147 &:= (1 + 1 + 1) \times (1 + ((1 + 1)^{11} + (11 - 1)^{1+1+1})) \\
&:= 2 + (((2 + 2 + 2)^2 \times (2^{2 \times (2+2)} - 2)) + 2/2) \\
&:= 3 + ((3 \times 3 + 3) \times (3^{3+3} + 33)) \\
&:= (4 \times 44 \times (44 + 4 + 4)) - 4/4 - 4 \\
&:= 5/5 + (((5/5 + 5)^5 - 5) + 5 \times 5 \times 55) \\
&:= 666/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) \\
&:= ((7/7 - 77) \times (7 - ((7 + 7)/7)^7)) - 7 \times 7 \\
&:= 8 + ((88 + 8 + 8)/8 \times (8 \times 88 - 8/8)) \\
&:= ((9 + 9 + 9)/9) + ((9 \times (999 + 9 + 9)) - 9)
\end{aligned}$$

- 9148 := $((11 + (11 - 1))^{1+1+1}) - (1 + 1 + 111)$
:= $2 + (((2 + 2 + 2)^2 \times (2^{2 \times (2+2)} - 2)) + 2)$
:= $3 + (((3 \times 3 + 3) \times (3^{3+3} + 33)) + 3/3)$
:= $(4 \times 44 \times (44 + 4 + 4)) - 4$
:= $((5 + 5 + 5) \times (555 + 55)) - (5 + 5)/5$
:= $6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) + ((6 + 6)/6)^6) + 6)$
:= $7777 + ((7 \times (7 + 7) \times (7 + 7)) - 7/7)$
:= $(88 \times (88 + 8 + 8)) - 8 \times 8/(8 + 8)$
:= $9 + ((9999/9 + 9 \times 9 \times 99) + 9)$
- 9149 := $((11 + (11 - 1))^{1+1+1}) - (1 + 111)$
:= $2 \times 22^2 + ((2^{22/2+2}) - 22/2)$
:= $((3 \times (3 + 3) + 3)^3) - ((333 + 3)/3)$
:= $4/4 + ((4 \times 44 \times (44 + 4 + 4)) - 4)$
:= $((5 + 5 + 5) \times (555 + 55)) - 5/5$
:= $(6/6 + 6) \times (6 \times 6 \times 6 + 6 + (66/6))$
:= $7777 + (7 \times (7 + 7) \times (7 + 7))$
:= $8 + ((88 \times (88 + 8 + 8)) - (88/8))$
:= $((9 - 9 \times 9)/(9 + 9)) + (9 \times (999 + 9 + 9))$
- 9150 := $((11 + (11 - 1))^{1+1+1}) - 111$
:= $(22 \times ((22 - 2)^2 + 2^{2+2})) - 2$
:= $(3^3 \times (333 + 3 + 3)) - 3$
:= $(4 \times 44 \times (44 + 4 + 4)) - (4 + 4)/4$
:= $(5 + 5 + 5) \times (555 + 55)$
:= $6 + (6 \times ((6 \times 6 \times (6 \times 6 + 6) + 6) + 6))$
:= $7/7 + ((7 \times (7 + 7) \times (7 + 7)) + 7777)$
:= $(88 \times (88 + 8 + 8)) - (8 + 8)/8$
:= $(9 \times (999 + 9 + 9)) - (9 + 9 + 9)/9$
- 9151 := $1 + (((11 + (11 - 1))^{1+1+1}) - 111)$
:= $(22^2 \times (22 - 2)) - ((22 + 2/2)^2)$
:= $3/3 + ((3^3 \times (333 + 3 + 3)) - 3)$
:= $(4 \times 44 \times (44 + 4 + 4)) - 4/4$
:= $5 \times 5 \times 55 + (5/5 + 5)^5$
:= $6 + ((6 \times ((6 \times 6 \times (6 \times 6 + 6) + 6) + 6)) + 6/6)$
:= $(77 \times ((7 \times 7 - 7) + 77)) - (77 + 7)/7$
:= $(88 \times (88 + 8 + 8)) - 8/8$
:= $(9 \times (999 + 9 + 9)) - (9 + 9)/9$
- 9152 := $((1 + 1 + 111) \times (11 - 1 - 1)^{1+1}) - 1$
:= $22 \times ((22 - 2)^2 + 2^{2+2})$
:= $(3^3 \times (333 + 3 + 3)) - 3/3$
:= $4 \times 44 \times (44 + 4 + 4)$
:= $5/5 + (5 \times 5 \times 55 + (5/5 + 5)^5)$
:= $((6 + 6)/6)^6 \times ((6 + 6) \times (6 + 6) - 6/6)$
:= $(77/7 + 77) \times (777/7 - 7)$
:= $88 \times (88 + 8 + 8)$
:= $(9 \times (999 + 9 + 9)) - 9/9$
- 9153 := $(1 + 1 + 111) \times (11 - 1 - 1)^{1+1}$
:= $(2/2 + 2)^{2+2} \times (222/2 + 2)$
:= $3^3 \times (333 + 3 + 3)$
:= $4/4 + (4 \times 44 \times (44 + 4 + 4))$
:= $5^5 + ((5 + 5)/5 \times (5^5 - 555/5))$
:= $6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) - 6)) + 666/6)$
:= $7 + (((77 - 7)/7 + 7) \times (7 \times 77 - 7/7))$
:= $8/8 + (88 \times (88 + 8 + 8))$
:= $9 \times (999 + 9 + 9)$
- 9154 := $1 + ((1 + 1 + 111) \times (11 - 1 - 1)^{1+1})$
:= $(22 + 2/2) \times ((22 - 2)^2 - 2)$
:= $3/3 + (3^3 \times (333 + 3 + 3))$
:= $(4 + 4)/4 + (4 \times 44 \times (44 + 4 + 4))$
:= $5 + (((5 + 5 + 5) \times (555 + 55)) - 5/5)$
:= $((66/6 + 6) + 6) \times (((6 + 6)/6) + 6 \times 66)$
:= $(77 \times ((7 \times 7 - 7) + 77)) - ((7 + 7)/7 + 7)$
:= $(8 + 8)/8 + (88 \times (88 + 8 + 8))$
:= $9/9 + (9 \times (999 + 9 + 9))$
- 9155 := $1 + (1 + ((1 + 1 + 111) \times (11 - 1 - 1)^{1+1}))$
:= $2 + ((2/2 + 2)^{2+2} \times (222/2 + 2))$
:= $3 + ((3^3 \times (333 + 3 + 3)) - 3/3)$
:= $4 + ((4 \times 44 \times (44 + 4 + 4)) - 4/4)$
:= $5 + ((5 + 5 + 5) \times (555 + 55))$
:= $6 + ((6/6 + 6) \times (6 \times 6 \times 6 + 6 + (66/6)))$
:= $(77 \times ((7 \times 7 - 7) + 77)) - (7/7 + 7)$
:= $88/8 + ((88 \times (88 + 8 + 8)) - 8)$
:= $(9 + 9)/9 + (9 \times (999 + 9 + 9))$
- 9156 := $1 + (1 + (1 + ((1 + 1 + 111) \times (11 - 1 - 1)^{1+1})))$
:= $((2 \times 22) - 2) \times (222 - 2 - 2)$
:= $3 + (3^3 \times (333 + 3 + 3))$
:= $4 + (4 \times 44 \times (44 + 4 + 4))$
:= $5 + (5 \times 5 \times 55 + (5/5 + 5)^5)$
:= $(6/6 + 6) \times ((6 \times 6 \times 6 + 6) + 6)$
:= $(77 \times ((7 \times 7 - 7) + 77)) - 7$
:= $8 \times 8/(8 + 8) + (88 \times (88 + 8 + 8))$
:= $((9 + 9 + 9)/9) + (9 \times (999 + 9 + 9))$
- 9157 := $((11 \times (111 \times (1 + 1 + 1 + 1 + 1))) - 1)/(1 + 1)$
:= $2/2 + (((2 \times 22) - 2) \times (222 - 2 - 2))$
:= $3 + ((3^3 \times (333 + 3 + 3)) + 3/3)$
:= $4 + ((4 \times 44 \times (44 + 4 + 4)) + 4/4)$
:= $5 + ((5 \times 5 \times 55 + (5/5 + 5)^5) + 5/5)$
:= $6/6 + ((6/6 + 6) \times ((6 \times 6 \times 6 + 6) + 6))$
:= $7/7 + ((77 \times ((7 \times 7 - 7) + 77)) - 7)$
:= $8 + (((88 \times (88 + 8 + 8)) - (88/8)) + 8)$
:= $((9 \times 9 - 9)/(9 + 9)) + (9 \times (999 + 9 + 9))$
- 9158 := $(1 + 1) \times (((1 + 1)^{1+1+1}) + (((11 + 11)^{1+1}) - 1))$
:= $(2 - 22^2) \times ((2/2 - 22) + 2)$
:= $3 + (((3^3 \times (333 + 3 + 3)) - 3/3) + 3)$
:= $4 + ((4 \times 44 \times (44 + 4 + 4)) + (4 + 4)/4)$
:= $5 + (((5 + 5)/5 \times (5^5 - 555/5)) + 5^5)$
:= $6 + (((6 + 6)/6)^6 \times ((6 + 6) \times (6 + 6) - 6/6))$
:= $(7 + 7)/7 + ((77 \times ((7 \times 7 - 7) + 77)) - 7)$
:= $8 + ((88 \times (88 + 8 + 8)) - ((8 + 8)/8))$
:= $((9 \times 9 + 9)/(9 + 9)) + (9 \times (999 + 9 + 9))$
- 9159 := $((1 + 1) \times (((1 + 1)^{1+1+1}) + ((11 + 11)^{1+1}))) - 1$
:= $2/2 + ((2 - 22^2) \times ((2/2 - 22) + 2))$
:= $3 + ((3^3 \times (333 + 3 + 3)) + 3)$
:= $(44 - 4/4) \times ((4/4 - 44) + 4^4)$
:= $5 + (((5 + 5 + 5) \times (555 + 55)) - 5/5) + 5$
:= $(6 \times 6 + 6/6 + 6) \times (6 \times 6 \times 6 - (6 \times 6/(6 + 6)))$
:= $7 + ((77/7 + 77) \times (777/7 - 7))$
:= $8 + ((88 \times (88 + 8 + 8)) - 8/8)$
:= $9 + ((9 \times (999 + 9 + 9)) - ((9 + 9 + 9)/9))$
- 9160 := $(1 + 1) \times (((1 + 1)^{1+1+1}) + ((11 + 11)^{1+1}))$
:= $2 \times (2^{2 \times (2+2+2)} + 22^2)$
:= $3 + (((3^3 \times (333 + 3 + 3)) + 3/3) + 3)$
:= $4 + ((4 \times 44 \times (44 + 4 + 4)) + 4)$
:= $5 + (((5 + 5 + 5) \times (555 + 55)) + 5)$
:= $6 + (((66/6 + 6) + 6) \times (((6 + 6)/6) + 6 \times 66))$
:= $(77 \times ((7 \times 7 - 7) + 77)) - (7 + 7 + 7)/7$
:= $8 + (88 \times (88 + 8 + 8))$
:= $9 + ((9 \times (999 + 9 + 9)) - ((9 + 9)/9))$
- 9161 := $11 + (((11 + (11 - 1))^{1+1+1}) - 111)$
:= $2/2 + ((2^{22/2+2}) + 2 \times 22^2)$
:= $((3 \times (3 + 3) + 3)^3) - (3 \times 33 + 3/3)$
:= $4 + (((4 \times 44 \times (44 + 4 + 4)) + 4/4) + 4)$
:= $5 + ((5 \times 5 \times 55 + (5/5 + 5)^5) + 5)$
:= $6 + (((6/6 + 6) \times (6 \times 6 \times 6 + 6 + (66/6))) + 6)$
:= $(77 \times ((7 \times 7 - 7) + 77)) - (7 + 7)/7$
:= $8 + ((88 \times (88 + 8 + 8)) + 8/8)$
:= $9 + ((9 \times (999 + 9 + 9)) - 9/9)$
- 9162 := $(11 - 1 - 1) \times (((1 + 1)^{11} - (1 + 11))/(1 + 1))$
:= $2 + ((2^{22/2+2}) + 2 \times 22^2)$
:= $((3 \times (3 + 3) + 3)^3) - 3 \times 33$
:= $(44 - 4)/4 + (4 \times 44 \times (44 + 4 + 4))$
:= $55/5 + (5 \times 5 \times 55 + (5/5 + 5)^5)$
:= $6 + ((6/6 + 6) \times ((6 \times 6 \times 6 + 6) + 6))$
:= $(77 \times ((7 \times 7 - 7) + 77)) - 7/7$
:= $8 + ((88 \times (88 + 8 + 8)) + ((8 + 8)/8))$
:= $9 + (9 \times (999 + 9 + 9))$

$$\begin{aligned}
\blacktriangleright 9163 &:= (111 \times (1 + (11 - 1)^{1+1})) - (1 + 1)^{11} \\
&:= 2 + (((2^{22/2+2}) + 2 \times 22^2) + 2/2) \\
&:= 3/3 + (((3 \times (3 + 3)) + 3^3) - 3 \times 33) \\
&:= 44/4 + (4 \times 44 \times (44 + 4 + 4)) \\
&:= 5^5 + ((5 + 5)/5 \times ((5^5 - 555/5) + 5)) \\
&:= (6/6 + 6) \times (((6 \times 6 \times 6 \times 6 + 6/6) + 6) + 6) \\
&:= 77 \times ((7 \times 7 - 7) + 77) \\
&:= 88/8 + (88 \times (88 + 8 + 8)) \\
&:= 9 + ((9 \times (999 + 9 + 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9164 &:= 11 + ((1 + 1 + 111) \times (11 - 1 - 1)^{1+1}) \\
&:= 2 \times ((2^{2 \times (2+2+2)} + 22^2) + 2) \\
&:= 33/3 + (3^3 \times (333 + 3 + 3)) \\
&:= (4 \times (44 \times (44 + 4 + 4) + 4)) - 4 \\
&:= 5^5 + (55/5 \times (555 - (5/5 + 5))) \\
&:= 6 + (((6 + 6)/6)^6 \times ((6 + 6) \times (6 + 6) - 6/6) + 6) \\
&:= 7/7 + (77 \times ((7 \times 7 - 7) + 77)) \\
&:= ((88 + 8)/8) + (88 \times (88 + 8 + 8)) \\
&:= 99/9 + (9 \times (999 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9165 &:= 1 + (11 + ((1 + 1 + 111) \times (11 - 1 - 1)^{1+1})) \\
&:= 2/2 + ((2 \times (22^2 + 2)) + (2^{22/2+2})) \\
&:= (3 \times (3 + 3))^3 + 3333 \\
&:= 4/4 + ((4 \times (44 \times (44 + 4 + 4) + 4)) - 4) \\
&:= 5^5 + ((5 + 5) \times ((55 \times 55 - 5)/5)) \\
&:= (6/6 - 66) \times (6 - (666/6 + 6 \times 6)) \\
&:= (7 + 7)/7 + (77 \times ((7 \times 7 - 7) + 77)) \\
&:= (88 + 8 + 8)/8 \times (8 \times 88 + 8/8) \\
&:= (99 + 9)/9 + (9 \times (999 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9166 &:= (((11 - 1 - 1) \times ((1 + 1)^{11} - 11)) - 1)/(1 + 1) \\
&:= 2 + ((2 \times (22^2 + 2)) + (2^{22/2+2})) \\
&:= 3/3 + ((3 \times (3 + 3))^3 + 3333) \\
&:= 4^4 + ((4 - 4/4)^4 \times (444 - 4)/4) \\
&:= ((5 - 5/5 + 5) \times ((5 - 5/5)^5 - 5)) - 5 \\
&:= ((6 + 6)/6)^6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6) \\
&:= (7 + 7 + 7)/7 + (77 \times ((7 \times 7 - 7) + 77)) \\
&:= 8 + (((88 \times (88 + 8 + 8)) - ((8 + 8)/8)) + 8) \\
&:= (9 \times (999 - 9)) + (((9 + 9)/9)^{9-9/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9167 &:= (1 + ((11 - 1 - 1) \times ((1 + 1)^{11} - 11)))/(1 + 1) \\
&:= 22/2 + (((2 \times 22) - 2) \times (222 - 2 - 2)) \\
&:= 3 + ((3^3 \times (333 + 3 + 3)) + 33/3) \\
&:= (4 \times (44 \times (44 + 4 + 4) + 4)) - 4/4 \\
&:= 5 + ((5 \times 5 \times 55 + (5/5 + 5)^5) + (55/5)) \\
&:= 6 \times 6 + (((66/6 + 6) + 6) \times (6 \times 66 + 6/6)) \\
&:= 77/7 + ((77 \times ((7 \times 7 - 7) + 77)) - 7) \\
&:= (8/8 + 88) \times (888/8 - 8) \\
&:= ((9 \times 9 - 9/9) + 9) \times (((999 + 9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9168 &:= 1 + ((1 + ((11 - 1 - 1) \times ((1 + 1)^{11} - 11)))/(1 + 1)) \\
&:= 2 \times ((2 \times (2^{22/2} + 2)) + 22^2) \\
&:= 3 + ((3 \times (3 + 3))^3 + 3333) \\
&:= 4 \times (44 \times (44 + 4 + 4) + 4) \\
&:= 5^5 + (55 \times (55 + 55) - ((5 + 5)/5 + 5)) \\
&:= 66 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6) \\
&:= 7 + ((77 \times ((7 \times 7 - 7) + 77)) - ((7 + 7)/7)) \\
&:= 8 + ((88 \times (88 + 8 + 8)) + 8) \\
&:= 99 + (9 \times (999 + 9) - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9169 &:= 1 + (1 + ((1 + ((11 - 1 - 1) \times ((1 + 1)^{11} - 11)))/(1 + 1))) \\
&:= 2/2 + (2 \times ((2 \times (2^{22/2} + 2)) + 22^2)) \\
&:= 3 + (((3 \times (3 + 3))^3 + 3333) + 3/3) \\
&:= 4/4 + (4 \times (44 \times (44 + 4 + 4) + 4)) \\
&:= 5^5 + (55 \times (55 + 55) - (5/5 + 5)) \\
&:= 6 + ((6/6 + 6) \times (((6 \times 6 \times 6 \times 6 + 6/6) + 6) + 6)) \\
&:= 7 + ((77 \times ((7 \times 7 - 7) + 77)) - 7/7) \\
&:= 8 + (((88 \times (88 + 8 + 8)) + 8/8) + 8) \\
&:= 99 + (9 \times (999 + 9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9170 &:= ((11 \times (1 + 11)) - 1) \times ((11 - 1 - 1)^{1+1} - 11) \\
&:= (2 \times 2 \times (22 + 2))^2 - (2 \times 22 + 2) \\
&:= 3 \times 33 + ((3^3 \times (333 + 3)) - 3/3) \\
&:= (4 + 4)/4 + (4 \times (44 \times (44 + 4 + 4) + 4)) \\
&:= 5^5 + (55 \times (55 + 55) - 5) \\
&:= ((6 + 6)/6 + 6 + 6) \times (666 - 66/6) \\
&:= 7 + (77 \times ((7 \times 7 - 7) + 77)) \\
&:= 8 + (((88 \times (88 + 8 + 8)) + ((8 + 8)/8)) + 8) \\
&:= 99 + (9 \times (999 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9171 &:= (11 - 1 - 1) \times ((1 + (1 + 1)^{11} - 11))/(1 + 1) \\
&:= (2 \times 2 \times (22 + 2))^2 - (2 \times 22 + 2/2) \\
&:= 3 \times ((3 \times (3 \times (333 + 3))) + 33) \\
&:= (4/4 + 4 + 4) \times (4 \times 4^4 - (4/4 + 4)) \\
&:= (5 - 5/5 + 5) \times ((5 - 5/5)^5 - 5) \\
&:= 6 + ((6/6 - 66) \times (6 - (666/6 + 6 \times 6))) \\
&:= 7 + ((77 \times ((7 \times 7 - 7) + 77)) + 7/7) \\
&:= 8 + ((88 \times (88 + 8 + 8)) + (88/8)) \\
&:= 99 + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9172 &:= ((11 - 1) \times (11 + 1111)) - (1 + 1)^{11} \\
&:= 2 \times ((2 \times ((2 \times (22 + 2))^2) - 22) - 2) \\
&:= 3/3 + ((3^3 \times (333 + 3)) + 3 \times 33) \\
&:= (4^4 \times (4 \times (4 + 4) + 4)) - 44 \\
&:= 5/5 + ((5 - 5/5 + 5) \times ((5 - 5/5)^5 - 5)) \\
&:= ((6 + 6)/6)^6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) \\
&:= 7 + ((77 \times ((7 \times 7 - 7) + 77)) + ((7 + 7)/7)) \\
&:= 8 + ((88 \times (88 + 8 + 8)) + ((88 + 8)/8)) \\
&:= 9/9 + (9 \times (999 + 9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9173 &:= 111 + (11111 - (1 + (1 + 1)^{11})) \\
&:= 2/2 + (2 \times ((2 \times ((2 \times (22 + 2))^2) - 22)) \\
&:= 33/3 + (((3 \times (3 + 3)) + 3^3) - 3 \times 33) \\
&:= 4/4 + ((4^4 \times (4 \times (4 + 4) + 4)) - 44) \\
&:= 5^5 + ((5 + 5)/5 \times (55 \times 55 - 5/5)) \\
&:= 66 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) - 6/6) \\
&:= ((77 - 7)/7) + (77 \times ((7 \times 7 - 7) + 77)) \\
&:= 8 + ((88 + 8 + 8)/8 \times (8 \times 88 + 8/8)) \\
&:= 9 + ((9 \times (999 + 9 + 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9174 &:= 111 + (11111 - (1 + 1)^{11}) \\
&:= 2 + (2 \times ((2 \times ((2 \times (22 + 2))^2) - 22)) \\
&:= 3 + ((3^3 \times (333 + 3)) + 3 \times 33) \\
&:= (4 + 4)/4 + ((4^4 \times (4 \times (4 + 4) + 4)) - 44) \\
&:= 5^5 + (55 \times (55 + 55) - 5/5) \\
&:= 66 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) \\
&:= 77/7 + (77 \times ((7 \times 7 - 7) + 77)) \\
&:= 88/8 \times (8 \times (88 + 8 + 8) + ((8 + 8)/8)) \\
&:= 999/9 + (9 \times (999 + 9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9175 &:= 1 + (111 + (11111 - (1 + 1)^{11})) \\
&:= 22222/2 - (2 \times 22)^2 \\
&:= 3 + (((3^3 \times (333 + 3)) + 3 \times 33) + 3/3) \\
&:= 44444/4 - 44 \times 44 \\
&:= 5^5 + 55 \times (55 + 55) \\
&:= 66 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + 6/6) \\
&:= (77 + 7)/7 + (77 \times ((7 \times 7 - 7) + 77)) \\
&:= 8 + ((8/8 + 88) \times (888/8 - 8)) \\
&:= ((9/9 + 9 \times 9) \times ((999 + 9)/9)) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9176 &:= 1 + (1 + (111 + (11111 - (1 + 1)^{11}))) \\
&:= 2 \times (((2 \times ((2 \times (22 + 2))^2) - 22) + 2) \\
&:= 33/3 + ((3 \times (3 + 3))^3 + 3333) \\
&:= 4 + ((4^4 \times (4 \times (4 + 4) + 4)) - 44) \\
&:= (5/5 + 5)^5 + 5 \times (5 \times 55 + 5) \\
&:= ((6 + 6)/6 + 6) \times ((6666/6) + 6 \times 6) \\
&:= 7 + (((77 \times ((7 \times 7 - 7) + 77)) - 7/7) + 7) \\
&:= 8 + (((88 \times (88 + 8 + 8)) + 8) + 8) \\
&:= 99 \times (9 \times 9 - 9) + (((9 + 9)/9)^{99/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9177 &:= (1 + (11 + 11)) \times (((1 + 1) \times (11 - 1))^{1+1} - 1) \\
&:= (22 + 2/2) \times ((22 - 2)^2 - 2/2) \\
&:= 3 \times ((33/3)^3 + (3 \times 3 + 3)^3) \\
&:= 4 + (((4^4 \times (4 \times (4 + 4) + 4)) - 44) + 4/4) \\
&:= 5^5 + (55 \times (55 + 55) + ((5 + 5)/5)) \\
&:= 666/6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 6) \\
&:= 7 + ((77 \times ((7 \times 7 - 7) + 77)) + 7) \\
&:= 8 + (((88 \times (88 + 8 + 8)) + 8/8) + 8) + 8) \\
&:= 9 + ((9 \times (999 + 9) - ((9 + 9 + 9)/9)) + 99)
\end{aligned}$$

- 9178 := $1 + ((1 + (11 + 11)) \times (((1 + 1) \times (11 - 1))^{1+1} - 1))$
:= $(22/2 + 2) \times (222 + 22^2)$
:= $3/3 + (3 \times ((33/3)^3 + (3 \times 3 + 3)^3))$
:= $((4/4 + 4 + 4) \times (4 \times 4^4 - 4)) - (4 + 4)/4$
:= $5 + (((5 + 5)/5 \times (55 \times 55 - 5/5)) + 5^5)$
:= $6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 6)) + ((6 + 6)/6)^6)$
:= $7 + (((77 \times ((7 \times 7 - 7) + 77)) + 7/7) + 7)$
:= $(88 + 8 + 8)/8 \times (((8 + 8)/8) + 8 \times 88)$
:= $9 + ((9 \times (999 + 9)) - ((9 + 9)/9) + 99)$
- 9179 := $((11 - 1 - 1) \times ((1 + 1)^{11-1} - (1 + 1 + 1 + 1))) - 1$
:= $2 + ((22 + 2/2) \times ((22 - 2)^2 - 2/2))$
:= $((3 \times (3 + 3) + 3)^3) - (3 \times 3^3 + 3/3)$
:= $((4/4 + 4 + 4) \times (4 \times 4^4 - 4)) - 4/4$
:= $5 + ((55 \times (55 + 55) - 5/5) + 5^5)$
:= $(66 + 6/6) \times ((66 - 6/6 + 66) + 6)$
:= $7 + (((77 \times ((7 \times 7 - 7) + 77)) + ((7 + 7)/7)) + 7)$
:= $8 + (((88 \times (88 + 8 + 8)) + (88/8)) + 8)$
:= $9 + ((9 \times (999 + 9)) - 9/9 + 99)$
- 9180 := $(11 - 1 - 1) \times ((1 + 1)^{11-1} - (1 + 1 + 1 + 1))$
:= $2 \times (2 \times ((2 \times (22 + 2))^2 + 2)) - 22$
:= $3 \times ((3^3 + 3) \times (3 \times 33 + 3))$
:= $(4/4 + 4 + 4) \times (4 \times 4^4 - 4)$
:= $5 + (55 \times (55 + 55) + 5^5)$
:= $6 \times (((6 \times 6 \times (6 \times 6 + 6) + 6) + 6) + 6)$
:= $((77 - 7)/7 + 7) \times (7 \times 77 + 7/7)$
:= $(8/8 + 8) \times (8 \times 8 \times (8 + 8) - 8 \times 8/(8 + 8))$
:= $9 + (9 \times (999 + 9) + 99)$
- 9181 := $1 + ((11 - 1 - 1) \times ((1 + 1)^{11-1} - (1 + 1 + 1 + 1)))$
:= $(2^{2+2} \times (((22 + 2)^2) - 2)) - 2/2 - 2$
:= $3/3 + (3 \times ((3^3 + 3) \times (3 \times 33 + 3)))$
:= $4/4 + ((4/4 + 4 + 4) \times (4 \times 4^4 - 4))$
:= $5 + (5 \times (5 \times 55 + 5) + (5/5 + 5)^5)$
:= $6/6 + (6 \times (((6 \times 6 \times (6 \times 6 + 6) + 6) + 6) + 6))$
:= $7 + ((77 \times ((7 \times 7 - 7) + 77)) + (77/7))$
:= $8 + (((88 + 8 + 8)/8 \times (8 \times 88 + 8/8)) + 8)$
:= $9 + ((9 \times (999 + 9) + 99) + 9/9)$
- 9182 := $((1 + 111) \times (1 + (11 - 1 - 1)^{1+1})) - 1 - 1$
:= $(2^{2+2} \times (((22 + 2)^2) - 2)) - 2$
:= $3 + (((3 \times (3 + 3) + 3)^3) - (3 \times 3^3 + 3/3))$
:= $(4 + 4)/4 + ((4/4 + 4 + 4) \times (4 \times 4^4 - 4))$
:= $5 + ((5 \times (5 \times 55 + 5) + (5/5 + 5)^5) + 5/5)$
:= $((666 - 6)/6) + 6 \times 6 \times 6 \times (6 \times 6 + 6)$
:= $((7/7 - 77) \times (7 - ((7 + 7)/7)^7)) - (7 + 7)$
:= $8 + ((88 \times (88 + 8 + 8)) + (88 + 88)/8)$
:= $99 + (9 \times (999 + 9) + (99/9))$
- 9183 := $((1 + 111) \times (1 + (11 - 1 - 1)^{1+1})) - 1$
:= $(2^{2+2} \times (((22 + 2)^2) - 2)) - 2/2$
:= $3 + (3 \times ((3^3 + 3) \times (3 \times 33 + 3)))$
:= $4 + (((4/4 + 4 + 4) \times (4 \times 4^4 - 4)) - 4/4)$
:= $5^5 + ((5 + 5)/5 \times ((55 \times 55 - 5/5) + 5))$
:= $666/6 + 6 \times 6 \times 6 \times (6 \times 6 + 6)$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 7/7 - 77$
:= $8 + (((8/8 + 88) \times (888/8 - 8)) + 8)$
:= $999/9 + 9 \times (999 + 9)$
- 9184 := $(1 + 111) \times (1 + (11 - 1 - 1)^{1+1})$
:= $2^{2+2} \times (((22 + 2)^2) - 2)$
:= $((333 + 3)/3) \times (3 \times 3^3 + 3/3)$
:= $4 + ((4/4 + 4 + 4) \times (4 \times 4^4 - 4))$
:= $(55/5 + 5) \times (((5^5 - 5)/5 - 55) + 5)$
:= $(666 + 6)/6 + 6 \times 6 \times 6 \times (6 \times 6 + 6)$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 77$
:= $(8 + 8) \times (8 \times (8 \times 8 + 8) - (8 + 8)/8)$
:= $(9/9 + 9 \times 9) \times ((999 + 9)/9)$
- 9185 := $1 + ((1 + 111) \times (1 + (11 - 1 - 1)^{1+1}))$
:= $2/2 + (2^{2+2} \times (((22 + 2)^2) - 2))$
:= $33 + ((3^3 \times (333 + 3 + 3)) - 3/3)$
:= $4 + (((4/4 + 4 + 4) \times (4 \times 4^4 - 4)) + 4/4)$
:= $55 \times ((555 + 5)/5 + 55)$
:= $6 + ((66 + 6/6) \times ((66 - 6/6 + 66) + 6))$
:= $7/7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 77)$
:= $8/8 + ((8 + 8) \times (8 \times (8 \times 8 + 8) - (8 + 8)/8))$
:= $9/9 + ((9/9 + 9 \times 9) \times ((999 + 9)/9))$
- 9186 := $1 + (1 + ((1 + 111) \times (1 + (11 - 1 - 1)^{1+1})))$
:= $2 + (2^{2+2} \times (((22 + 2)^2) - 2))$
:= $33 + (3^3 \times (333 + 3 + 3))$
:= $4 + (((4/4 + 4 + 4) \times (4 \times 4^4 - 4)) + (4 + 4)/4)$
:= $5 + ((5 \times (5 \times 55 + 5) + (5/5 + 5)^5) + 5)$
:= $6 + (6 \times (((6 \times 6 \times (6 \times 6 + 6) + 6) + 6) + 6))$
:= $(7 + 7)/7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 77)$
:= $8 + ((88 + 8 + 8)/8 \times ((8 + 8)/8) + 8 \times 88)$
:= $99 + ((9 \times 999 - ((9 + 9 + 9)/9)) + 99)$
- 9187 := $((11 - 1 - 1) \times ((1 + 1)^{11-1} - (1 + 1))) - 11$
:= $2 + ((2^{2+2} \times (((22 + 2)^2) - 2)) + 2/2)$
:= $3 + (((333 + 3)/3) \times (3 \times 3^3 + 3/3))$
:= $4 + (((4/4 + 4 + 4) \times (4 \times 4^4 - 4)) - 4/4) + 4$
:= $5^5 + (55 \times (55 + 55) + ((55 + 5)/5))$
:= $6 + ((6 \times (((6 \times 6 \times (6 \times 6 + 6) + 6) + 6) + 6)) + 6/6)$
:= $7 + (((77 - 7)/7 + 7) \times (7 \times 77 + 7/7))$
:= $8 + (((88 \times (88 + 8 + 8)) + (88/8)) + 8) + 8$
:= $99 + ((9 \times 999 - ((9 + 9)/9)) + 99)$
- 9188 := $((11 - 1 - 1) \times ((1 + 1)^{11-1} - 1 - 1 - 1)) - 1$
:= $2 + ((2^{2+2} \times (((22 + 2)^2) - 2)) + 2)$
:= $((3 \times (3 + 3) + 3)^3) - (((3 + 3)^3 + 3)/3)$
:= $4 + (((4/4 + 4 + 4) \times (4 \times 4^4 - 4)) + 4)$
:= $((5 + 5 + 5) \times (5^5/5 - 5)) - (555 + 5)/5$
:= $6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + ((666 - 6)/6))$
:= $7 + (((77 \times ((7 \times 7 - 7) + 77)) + (77/7)) + 7)$
:= $((88/8 + 8) \times 88 \times 88/(8 + 8)) - 8$
:= $99 + ((9 \times 999 - 9/9) + 99)$
- 9189 := $(11 - 1 - 1) \times ((1 + 1)^{11-1} - 1 - 1 - 1)$
:= $(2/2 + 2)^2 \times (((2^{22/2} - 2)/2) - 2)$
:= $3 \times (((3^3 + 3) \times (3 \times 33 + 3)) + 3)$
:= $(4/4 + 4 + 4) \times ((4 \times 4^4 - 4) + 4/4)$
:= $((5 + 5 + 5) \times (5^5/5 - 5)) - 555/5$
:= $6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + 666/6)$
:= $((7/7 - 77) \times (7 - ((7 + 7)/7)^7)) - 7$
:= $(8/8 + 8) \times ((8 \times 8 \times (8 + 8) - (88/8)) + 8)$
:= $99 + (9 \times 999 + 99)$
- 9190 := $1 + ((11 - 1 - 1) \times ((1 + 1)^{11-1} - 1 - 1 - 1))$
:= $(2 \times 2 \times (22 + 2))^2 - 22 - 2 - 2$
:= $((3 - (3 + 3)^3)/3) + (((3 \times (3 + 3)) + 3)^3)$
:= $4/4 + ((4/4 + 4 + 4) \times ((4 \times 4^4 - 4) + 4/4))$
:= $5 + (55 \times ((555 + 5)/5 + 55))$
:= $6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + (666 + 6)/6)$
:= $((7/7 + 77) \times (777/7 + 7)) - (7 + 7)$
:= $((8/8 + 8) \times (8 \times 8 \times (8 + 8) - ((8 + 8)/8))) - 8$
:= $9/9 + ((9 \times 999 + 99) + 99)$
- 9191 := $(11 - 1)^{1+1+1} + (((1 + 1)^{1+1+1}) - 1)$
:= $(2 \times 2 \times (22 + 2))^2 - ((22 + 2/2) + 2)$
:= $3 + (((3 \times (3 + 3) + 3)^3) - (((3 + 3)^3 + 3)/3))$
:= $44/4 + ((4/4 + 4 + 4) \times (4 \times 4^4 - 4))$
:= $((5 - 5/5 + 5) \times (5 - 5/5)^5) - 5 \times 5$
:= $(6/6 + 6) \times ((6 \times 6 \times 6 \times 6 + (66/6)) + 6)$
:= $7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 77)$
:= $(8 \times (8 + 8) \times (8 \times 8 + 8)) - (8/8 + 8 + 8 + 8)$
:= $((9/9 + 9 \times 9) + 9) \times ((9 + 9)/9 + 99)$
- 9192 := $(11 - 1)^{1+1+1} + ((1 + 1)^{1+1+1})$
:= $(2 \times 2 \times (22 + 2))^2 - 22 - 2$
:= $3 + ((3^3 \times 333) + 33 \times (3 + 3))$
:= $44 + ((4 \times 44 \times (44 + 4 + 4)) - 4)$
:= $(5 + 5)/5 \times ((5/5 + 5)^5 - (55 + 5^5))$
:= $6 + ((6 \times (((6 \times 6 \times (6 \times 6 + 6) + 6) + 6) + 6)) + 6)$
:= $(77 + 7)/7 \times (777 - (77/7))$
:= $(8 \times (8 + 8) \times (8 \times 8 + 8)) - 8 - 8 - 8$
:= $9 + (9 \times (999 + 9) + 999/9)$

$$\begin{aligned}
\blacktriangleright 9193 &:= 1 + ((11-1)^{1+1+1} + ((1+1)^{1+1+11})) \\
&:= (2 \times 2 \times (22+2))^2 - 22 - 2/2 \\
&:= 3 + (((3-(3+3)^3)/3) + (((3 \times (3+3)) + 3)^3)) \\
&:= 4 + ((4/4+4+4) \times ((4 \times 4^4 - 4) + 4/4)) \\
&:= (5 \times 5 - 5/5 + 5) \times ((5^5 - 5)/(5+5) + 5) \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) + ((66/6) \times (66/6)) \\
&:= 7/7 + ((77+7)/7 \times (777 - (77/7))) \\
&:= 8/8 + ((8 \times (8+8) \times (8 \times 8 + 8)) - (8+8+8)) \\
&:= 9 + ((9/9+9 \times 9) \times ((999+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9194 &:= ((11-1-1) \times (1+1)^{11-1}) - 11 - 11 \\
&:= (2 \times 2 \times (22+2))^2 - 22 \\
&:= (((3 \times (3+3)) + 3)^3) - (((3/3+3)^3) + 3) \\
&:= (4^4 \times (4 \times (4+4) + 4)) - (44/((4+4)/4)) \\
&:= ((5+5+5) \times ((5^5 - (55+5))/5)) - 5/5 \\
&:= 6 \times 6 \times 6 \times (6 \times 6 + 6) + ((666+66)/6) \\
&:= ((7+7+7)/7)^7 + (77 \times (77+7+7)) \\
&:= ((8+8)/8) \times (8 \times 8 \times (8 \times 8 + 8)) - (88/8) \\
&:= ((9+9)/9) \times (9 \times ((9+9)/9)^9 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9195 &:= 11 + ((1+11) \times (1 + (11-1-1)^{1+1})) \\
&:= 2/2 + ((2 \times 2 \times (22+2))^2 - 22) \\
&:= (((3 \times (3+3)) + 3)^3) - (33+33) \\
&:= 44 + ((4 \times 44 \times (44+4+4)) - 4/4) \\
&:= (5+5+5) \times ((5^5 - (55+5))/5) \\
&:= 6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) + 666/6) + 6) \\
&:= ((7/7 - 77) \times (7 - ((7+7)/7)^7)) - 7/7 \\
&:= 88/8 + ((8+8) \times (8 \times (8 \times 8 + 8)) - (8+8)/8) \\
&:= ((9+9) \times ((9+9)/9)^9) - ((99+9)/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9196 &:= (((1+1) \times (11-1)) - 1) \times ((11+11)^{1+1}) \\
&:= 22^2 \times (22 - (2/2+2)) \\
&:= (33/3 + 3^3) \times ((3^{3+3} - 3)/3) \\
&:= 44 + (4 \times 44 \times (44+4+4)) \\
&:= 5 + (((5-5/5+5) \times (5-5/5)^5) - 5 \times 5) \\
&:= 66/6 \times ((66/6) \times (((6+6)/6)^6 + 6) + 6) \\
&:= (7/7 - 77) \times (7 - ((7+7)/7)^7) \\
&:= (88/8+8) \times 88 \times 88/(8+8) \\
&:= ((9+9) \times ((9+9)/9)^9) - (99/9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9197 &:= ((11-1-1) \times ((1+1)^{11-1} - (1+1))) - 1 \\
&:= 2/2 + (22^2 \times (22 - (2/2+2))) \\
&:= (((3 \times (3+3)) + 3)^3) - ((3/3+3)^3) \\
&:= 44 + ((4 \times 44 \times (44+4+4)) + 4/4) \\
&:= 5 + ((5+5)/5 \times ((5/5+5)^5 - (55+5^5))) \\
&:= 6 + ((6/6+6) \times ((6 \times 6 \times 6 \times 6 + (66/6)) + 6)) \\
&:= ((7/7+77) \times (777/7+7)) - 7 \\
&:= (8 \times (8+8) \times (8 \times 8 + 8)) - (88/8+8) \\
&:= ((9+9) \times ((9+9)/9)^9) - (9/9+9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9198 &:= (11-1-1) \times ((1+1)^{11-1} - (1+1)) \\
&:= 2 + (22^2 \times (22 - (2/2+2))) \\
&:= (3 \times 3 + 33) \times ((3+3)^3 + 3) \\
&:= (4/4+4+4) \times (4 \times 4^4 - (4+4)/4) \\
&:= (5 - (5+5)/5) \times ((5^5 - (55+5)) + 5/5) \\
&:= (6/6+6) \times (((6 \times 6 \times 6 \times 6 + 6) + 6) + 6) \\
&:= (7 \times (7 \times 77 + 777)) - (7+7) \\
&:= (8/8+8) \times (8 \times 8 \times (8+8) - ((8+8)/8)) \\
&:= (9+9) \times (((9+9)/9)^9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9199 &:= 1 + ((11-1-1) \times ((1+1)^{11-1} - (1+1))) \\
&:= ((22+2/2) \times (22-2)^2) - 2/2 \\
&:= 3/3 + ((3 \times 3 + 33) \times ((3+3)^3 + 3)) \\
&:= (4^4 \times (4 \times (4+4) + 4)) - (4 \times 4 + 4/4) \\
&:= 5^5 + ((5 \times (5 \times ((5 - (5+5)/5)^5))) - 5/5) \\
&:= 6/6 + ((6/6+6) \times (((6 \times 6 \times 6 \times 6 + 6) + 6) + 6)) \\
&:= 7 + ((77+7)/7 \times (777 - (77/7))) \\
&:= (8 \times (8+8) \times (8 \times 8 + 8)) - (8/8+8+8) \\
&:= 9/9 + ((9+9) \times (((9+9)/9)^9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9200 &:= (1 + (11+11)) \times ((1+1) \times (11-1))^{1+1} \\
&:= (22+2/2) \times (22-2)^2 \\
&:= 3 + (((3 \times (3+3)) + 3)^3) - ((3/3+3)^3) \\
&:= 4 \times ((4^4 \times (4+4) - 4) + 4^4) \\
&:= 5 \times (5 \times ((5^5 + 5)/(5+5) + 55)) \\
&:= ((66/6+6) + 6) \times ((6 \times 66 - ((6+6)/6)) + 6) \\
&:= (7/7+7 \times 7) \times (((7+7)/7)^7 + 7 \times 7) + 7) \\
&:= (8+8) \times (8 \times (8 \times 8 + 8)) - 8/8 \\
&:= (9/9+99) \times ((99/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9201 &:= 1 + ((1 + (11+11)) \times ((1+1) \times (11-1))^{1+1}) \\
&:= 2/2 + ((22+2/2) \times (22-2)^2) \\
&:= 3 + ((3 \times 3 + 33) \times ((3+3)^3 + 3)) \\
&:= 4/4 + (4 \times ((4^4 \times (4+4) - 4) + 4^4)) \\
&:= (5/5+5)^5 + (5 \times ((5 \times 55 + 5) + 5)) \\
&:= (666/6 \times (66/6 + 66 + 6)) - 6 - 6 \\
&:= (7 \times (7 \times 77 + 777)) - 77/7 \\
&:= 8/8 + ((8+8) \times (8 \times (8 \times 8 + 8)) - 8/8) \\
&:= 99 + (9 \times 999 + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9202 &:= (111 \times (1 + (1 + (11-1-1)^{1+1}))) - 11 \\
&:= 2 + ((22+2/2) \times (22-2)^2) \\
&:= 3 + (((3 \times 3 + 33) \times ((3+3)^3 + 3)) + 3/3) \\
&:= 4 + ((4/4+4+4) \times (4 \times 4^4 - (4+4)/4)) \\
&:= ((5 - (5+5)/5) \times (5^5 - (55+5/5))) - 5 \\
&:= (6 \times 6 + 6/6 + 6) \times (6 \times 6 \times 6 - (6+6)/6) \\
&:= ((7-77)/7) + (7 \times (7 \times 77 + 777)) \\
&:= (8+8)/8 + ((8+8) \times (8 \times (8 \times 8 + 8)) - 8/8) \\
&:= 9 + (((9/9+9 \times 9) \times ((999+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9203 &:= ((11-1-1) \times (1+1)^{11-1}) - 1 - 1 - 11 \\
&:= (2 \times 2 \times (22+2))^2 - (22/2+2) \\
&:= 3 + (((3 \times (3+3)) + 3)^3) - ((3/3+3)^3) + 3) \\
&:= ((4/4+4+4) \times (4 \times 4^4 - 4/4)) - 4 \\
&:= 5 + ((5 - (5+5)/5) \times ((5^5 - (55+5)) + 5/5)) \\
&:= 66 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) - 6/6) + 66) \\
&:= 7 + ((7/7 - 77) \times (7 - ((7+7)/7)^7)) \\
&:= (8 \times (8+8) \times (8 \times 8 + 8)) - (88+8+8)/8 \\
&:= ((9+9) \times ((9+9)/9)^9) - (99+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9204 &:= ((11-1-1) \times (1+1)^{11-1}) - 1 - 11 \\
&:= 2 \times ((2 \times (((2 \times (22+2))^2) - 2)) - 2) \\
&:= (3+3)^3 + ((3^3 \times 333) - 3) \\
&:= 4 + (4 \times ((4^4 \times (4+4) - 4) + 4^4)) \\
&:= (5 - (5+5)/5) \times (5^5 - ((5+5)/5 + 55)) \\
&:= 66 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + 66) \\
&:= (7/7+77) \times (777/7+7) \\
&:= ((88+8)/8) \times (8 \times (88+8) - 8/8) \\
&:= ((9+9) \times ((9+9)/9)^9) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9205 &:= ((11-1-1) \times (1+1)^{11-1}) - 11 \\
&:= (2 \times 2 \times (22+2))^2 - 22/2 \\
&:= ((3 \times 33 - 3)^{3-3/3}) - 33/3 \\
&:= (4^4 \times (4 \times (4+4) + 4)) - 44/4 \\
&:= ((5+5+5) \times ((5^5 - 55)/5)) - 5 \\
&:= (6 \times 6 - 6/6) \times (6 \times (6 \times 6 + 6) + (66/6)) \\
&:= (7 \times (7 \times 77 + 777)) - 7 \\
&:= (8 \times (8+8) \times (8 \times 8 + 8)) - 88/8 \\
&:= ((9+9) \times ((9+9)/9)^9) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9206 &:= ((11-1-1) \times ((1+1)^{11-1} - 1)) - 1 \\
&:= (2 \times (2 \times (((2 \times (22+2))^2) - 2))) - 2 \\
&:= (3+3)^3 + ((3^3 \times 333) - 3/3) \\
&:= (4-44)/4 + (4^4 \times (4 \times (4+4) + 4)) \\
&:= 55 + (5 \times 5 \times 55 + (5/5+5)^5) \\
&:= (6-66)/6 + ((6+6) \times ((6+6) \times ((6+6)/6)^6)) \\
&:= 7/7 + ((7 \times (7 \times 77 + 777)) - 7) \\
&:= (8-88)/8 + (8 \times (8+8) \times (8 \times 8 + 8)) \\
&:= ((9+9) \times ((9+9)/9)^9) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9207 &:= (11-1-1) \times ((1+1)^{11-1} - 1) \\
&:= 2 + ((2 \times 2 \times (22+2))^2 - 22/2) \\
&:= 3 \times (33 \times (3 \times (3^3+3) + 3)) \\
&:= (4/4+4+4) \times (4 \times 4^4 - 4/4) \\
&:= (5 - (5+5)/5) \times (5^5 - (55+5/5)) \\
&:= 66/6 \times ((66 \times 66 + 666)/6) \\
&:= (7+7)/7 + ((7 \times (7 \times 77 + 777)) - 7) \\
&:= (8/8+8) \times (8 \times 8 \times (8+8) - 8/8) \\
&:= ((9+9) \times ((9+9)/9)^9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9208 &:= 1 + ((11 - 1 - 1) \times ((1 + 1)^{11-1} - 1)) \\
&:= 2 \times (2 \times ((2 \times (22 + 2))^2 - 2)) \\
&:= 3/3 + ((3^3 \times 333) + (3 + 3)^3) \\
&:= (4^4 \times (4 \times (4 + 4) + 4)) - 4 - 4 \\
&:= 5^5 + (55/5 \times (555 - (5 + 5)/5)) \\
&:= 6 + ((6 \times 6 + 6/6 + 6) \times (6 \times 6 \times 6 - (6 + 6)/6)) \\
&:= 7 + ((7 \times (7 \times 77 + 777)) - (77/7)) \\
&:= (8 \times (8 + 8) \times (8 \times 8 + 8)) - 8 \\
&:= 9/9 + (((9 + 9) \times ((9 + 9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9209 &:= 1 + (1 + ((11 - 1 - 1) \times ((1 + 1)^{11-1} - 1))) \\
&:= 2/2 + (2 \times (2 \times ((2 \times (22 + 2))^2 - 2))) \\
&:= 3 + (((3^3 \times 333) - 3/3) + (3 + 3)^3) \\
&:= 4 + ((4^4 \times (4 \times (4 + 4) + 4)) - 44/4) \\
&:= ((5 + 5 + 5) \times ((5^5 - 55)/5)) - 5/5 \\
&:= ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) - 6/6 - 6 \\
&:= ((7 \times (7 + 7) - ((7 + 7)/7))^{(7+7)/7}) - 7 \\
&:= 8/8 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - 8) \\
&:= 9 + ((9/9 + 99) \times ((99/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9210 &:= 1 + (1 + (1 + ((11 - 1 - 1) \times ((1 + 1)^{11-1} - 1)))) \\
&:= 2 + (2 \times (2 \times ((2 \times (22 + 2))^2 - 2))) \\
&:= 3 + ((3^3 \times 333) + (3 + 3)^3) \\
&:= (4^4 \times (4 \times (4 + 4) + 4)) - ((4 + 4)/4 + 4) \\
&:= (5 + 5 + 5) \times ((5^5 - 55)/5) \\
&:= ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) - 6 \\
&:= (7 \times (7 \times 77 + 777)) - (7 + 7)/7 \\
&:= (8 + 8)/8 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - 8) \\
&:= 9 + ((9 \times 999 + 999/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9211 &:= (((11 - 1 - 1) \times ((1 + 1)^{11} - 1)) - 1)/(1 + 1) \\
&:= (2 \times 2 \times (22 + 2))^2 - 2/2 - 2 - 2 \\
&:= 3 + (((3^3 \times 333) + (3 + 3)^3) + 3/3) \\
&:= (4^4 \times (4 \times (4 + 4) + 4)) - 4/4 - 4 \\
&:= ((5 - 5/5 + 5) \times (5 - 5/5)^5) - 5 \\
&:= 6/6 + (((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) - 6) \\
&:= (7 \times (7 \times 77 + 777)) - 7/7 \\
&:= 88/8 + ((8 + 8) \times (8 \times (8 + 8) - 8/8)) \\
&:= 9 \times (9 \times 99 + 9) + 9999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9212 &:= (1 + ((11 - 1 - 1) \times ((1 + 1)^{11} - 1)))/(1 + 1) \\
&:= 2 \times ((2 \times ((2 \times (22 + 2))^2) - 2) \\
&:= (3^3 + 3/3) \times (333 - (3/3 + 3)) \\
&:= (4^4 \times (4 \times (4 + 4) + 4)) - 4 \\
&:= 5 + ((5 - (5 + 5)/5) \times (5^5 - (55 + 5/5))) \\
&:= (6 + 6)/6 + (((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) - 6) \\
&:= 7 \times (7 \times 77 + 777) \\
&:= (8 \times (8 + 8) \times (8 \times 8 + 8)) - 8 \times 8/(8 + 8) \\
&:= ((9 + 9)/9) \times (9 \times ((9 + 9)/9)^9 - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9213 &:= 111 \times (1 + (1 + (11 - 1 - 1)^{1+1})) \\
&:= (2 \times 2 \times (22 + 2))^2 - 2/2 - 2 \\
&:= ((3 \times 33 - 3)^{3-3/3}) - 3 \\
&:= 4/4 + ((4^4 \times (4 \times (4 + 4) + 4)) - 4) \\
&:= (5 - (5 + 5)/5) \times ((5^5 - 55) + 5/5) \\
&:= 666/6 \times (66/6 + 66 + 6) \\
&:= 7/7 + (7 \times (7 \times 77 + 777)) \\
&:= 8 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - (88/8)) \\
&:= 999/9 \times (((9 + 9)/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9214 &:= ((11 - 1 - 1) \times (1 + 1)^{11-1}) - 1 - 1 \\
&:= (2 \times 2 \times (22 + 2))^2 - 2 \\
&:= 3/3 + (((3 \times 33 - 3)^{3-3/3}) - 3) \\
&:= (4^4 \times (4 \times (4 + 4) + 4)) - (4 + 4)/4 \\
&:= 5 + (((5 + 5 + 5) \times ((5^5 - 55)/5)) - 5/5) \\
&:= ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) - (6 + 6)/6 \\
&:= (7 + 7)/7 + (7 \times (7 \times 77 + 777)) \\
&:= (8 \times (8 + 8) \times (8 \times 8 + 8)) - (8 + 8)/8 \\
&:= ((9 + 9) \times ((9 + 9)/9)^9) - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9215 &:= ((11 - 1 - 1) \times (1 + 1)^{11-1}) - 1 \\
&:= (2 \times 2 \times (22 + 2))^2 - 2/2 \\
&:= ((3 \times 33 - 3)^{3-3/3}) - 3/3 \\
&:= (4^4 \times (4 \times (4 + 4) + 4)) - 4/4 \\
&:= 5 + ((5 + 5 + 5) \times ((5^5 - 55)/5)) \\
&:= ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) - 6/6 \\
&:= (7 + 7 + 7)/7 + (7 \times (7 \times 77 + 777)) \\
&:= (8 \times (8 + 8) \times (8 \times 8 + 8)) - 8/8 \\
&:= ((9 + 9) \times ((9 + 9)/9)^9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9216 &:= (11 - 1 - 1) \times (1 + 1)^{11-1} \\
&:= (2 \times 2 \times (22 + 2))^2 \\
&:= (3 \times 33 - 3)^{3-3/3} \\
&:= 4^4 \times (4 \times (4 + 4) + 4) \\
&:= (5 - 5/5 + 5) \times (5 - 5/5)^5 \\
&:= (6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6) \\
&:= (7 \times (7 + 7) - ((7 + 7)/7))^{(7+7)/7} \\
&:= 8 \times (8 + 8) \times (8 \times 8 + 8) \\
&:= (9 + 9) \times ((9 + 9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9217 &:= 1 + ((11 - 1 - 1) \times (1 + 1)^{11-1}) \\
&:= 2/2 + (2 \times 2 \times (22 + 2))^2 \\
&:= 3/3 + ((3 \times 33 - 3)^{3-3/3}) \\
&:= 4/4 + (4^4 \times (4 \times (4 + 4) + 4)) \\
&:= 5/5 + ((5 - 5/5 + 5) \times (5 - 5/5)^5) \\
&:= 6/6 + ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) \\
&:= 7 + ((7 \times (7 \times 77 + 777)) - ((7 + 7)/7)) \\
&:= 8/8 + (8 \times (8 + 8) \times (8 \times 8 + 8)) \\
&:= 9/9 + ((9 + 9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9218 &:= 1 + (1 + ((11 - 1 - 1) \times (1 + 1)^{11-1})) \\
&:= 2 + (2 \times 2 \times (22 + 2))^2 \\
&:= 3 + (((3 \times 33 - 3)^{3-3/3}) - 3/3) \\
&:= (4 + 4)/4 + (4^4 \times (4 \times (4 + 4) + 4)) \\
&:= 5 + ((5 - (5 + 5)/5) \times ((5^5 - 55) + 5/5)) \\
&:= (6 + 6)/6 + ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) \\
&:= 7 + ((7 \times (7 \times 77 + 777)) - 7/7) \\
&:= (8 + 8)/8 + (8 \times (8 + 8) \times (8 \times 8 + 8)) \\
&:= (9 + 9)/9 + ((9 + 9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9219 &:= 1 + (1 + (1 + ((11 - 1 - 1) \times (1 + 1)^{11-1}))) \\
&:= 2 + ((2 \times 2 \times (22 + 2))^2 + 2/2) \\
&:= 3 + ((3 \times 33 - 3)^{3-3/3}) \\
&:= 4 + ((4^4 \times (4 \times (4 + 4) + 4)) - 4/4) \\
&:= 5^5 + (55/5 \times (555 - 5/5)) \\
&:= 6 + (666/6 \times (66/6 + 66 + 6)) \\
&:= 7 + (7 \times (7 \times 77 + 777)) \\
&:= 88/8 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - 8) \\
&:= ((9 + 9 + 9)/9) + ((9 + 9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9220 &:= (((11 - 1 - 1) \times (1 + (1 + 1)^{11})) - 1)/(1 + 1) \\
&:= 2 + ((2 \times 2 \times (22 + 2))^2 + 2) \\
&:= 3 + (((3 \times 33 - 3)^{3-3/3}) + 3/3) \\
&:= 4 + (4^4 \times (4 \times (4 + 4) + 4)) \\
&:= ((5 + 5 + 5) \times (5^5/5 - (5 + 5))) - 5 \\
&:= 6 + (((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) - ((6 + 6)/6)) \\
&:= 7 + ((7 \times (7 \times 77 + 777)) + 7/7) \\
&:= 8 \times 8/(8 + 8) + (8 \times (8 + 8) \times (8 \times 8 + 8)) \\
&:= 9 + (9 \times (9 \times 99 + 9) + 9999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9221 &:= (1 + ((11 - 1 - 1) \times (1 + (1 + 1)^{11}))) / (1 + 1) \\
&:= 2 + (((2 \times 2 \times (22 + 2))^2 + 2/2) + 2) \\
&:= 3 + (((3 \times 33 - 3)^{3-3/3}) - 3/3) + 3) \\
&:= 4 + ((4^4 \times (4 \times (4 + 4) + 4)) + 4/4) \\
&:= 5 + ((5 - 5/5 + 5) \times (5 - 5/5)^5) \\
&:= 6 + (((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) - 6/6) \\
&:= 7 + ((7 \times (7 \times 77 + 777)) + ((7 + 7)/7)) \\
&:= 8 + (((8 \times (8 + 8) \times (8 \times 8 + 8)) - (88/8)) + 8) \\
&:= ((9 \times 9 + 9)/(9 + 9)) + ((9 + 9) \times ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9222 &:= 1 + ((1 + ((11 - 1 - 1) \times (1 + (1 + 1)^{11}))) / (1 + 1)) \\
&:= 2 + (((2 \times 2 \times (22 + 2))^2 + 2) + 2) \\
&:= 3 + (((3 \times 33 - 3)^{3-3/3}) + 3) \\
&:= 4 + ((4^4 \times (4 \times (4 + 4) + 4)) + (4 + 4)/4) \\
&:= 5 + (((5 - 5/5 + 5) \times (5 - 5/5)^5) + 5/5) \\
&:= 6 + ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6)^6)) \\
&:= ((77 - 7)/7) + (7 \times (7 \times 77 + 777)) \\
&:= 8 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - ((8 + 8)/8)) \\
&:= 9 + (999/9 \times (((9 + 9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9223 &:= ((11-1-1) \times (1+(1+1)^{11-1})) - 1 - 1 \\
&:= (22+2/2) \times ((22-2)^2 + 2/2) \\
&:= (((3 \times (3+3)) + 3)^3) - (33/3 + 3^3) \\
&:= 4 + (((4^4 \times (4 \times (4+4) + 4)) - 4/4) + 4) \\
&:= ((5+5+5) \times (5^5/5 - (5+5))) - (5+5)/5 \\
&:= 6 + (((6+6) \times ((6+6) \times ((6+6)/6)^6)) + 6/6) \\
&:= 7 + ((7 \times (7+7) - ((7+7)/7))^{(7+7)/7}) \\
&:= 8 + ((8 \times (8+8) \times (8 \times 8+8)) - 8/8) \\
&:= 9 + (((9+9) \times ((9+9)/9)^9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9224 &:= ((11-1-1) \times (1+(1+1)^{11-1})) - 1 \\
&:= 2 \times (2 \times ((2 \times (22+2))^2 + 2)) \\
&:= (((3 \times (3+3)) + 3)^3) - (3/3 + 33 + 3) \\
&:= 4 + ((4^4 \times (4 \times (4+4) + 4)) + 4) \\
&:= ((5+5+5) \times (5^5/5 - (5+5))) - 5/5 \\
&:= 6 \times 6 \times (6 \times (6 \times 6+6) + 6) - ((6+6)/6)^6 \\
&:= (7/7 + 7) \times ((7777/7 - 7) + 7 \times 7) \\
&:= 8 + (8 \times (8+8) \times (8 \times 8+8)) \\
&:= 9 + (((9+9) \times ((9+9)/9)^9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9225 &:= (11-1-1) \times (1+(1+1)^{11-1}) \\
&:= 2/2 + (2 \times (2 \times ((2 \times (22+2))^2 + 2))) \\
&:= (((3 \times (3+3)) + 3)^3) - (33+3) \\
&:= (4/4 + 4 + 4) \times (4 \times 4^4 + 4/4) \\
&:= (5+5+5) \times (5^5/5 - (5+5)) \\
&:= 6 + ((666/6 \times (66/6 + 66 + 6)) + 6) \\
&:= 7 + (((7 \times (7 \times 77 + 777)) - 7/7) + 7) \\
&:= 8 + ((8 \times (8+8) \times (8 \times 8+8)) + 8/8) \\
&:= 9 + ((9+9) \times ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9226 &:= 1 + ((11-1-1) \times (1+(1+1)^{11-1})) \\
&:= 2 + (2 \times (2 \times ((2 \times (22+2))^2 + 2))) \\
&:= 3/3 + (((3 \times (3+3)) + 3)^3) - (33+3) \\
&:= (44-4)/4 + (4^4 \times (4 \times (4+4) + 4)) \\
&:= 5 + (((5-5/5+5) \times (5-5/5)^5) + 5) \\
&:= ((6+6)/6 + 6 + 6) \times (666 - 6/6 - 6) \\
&:= 7 + ((7 \times (7 \times 77 + 777)) + 7) \\
&:= 8 + ((8 \times (8+8) \times (8 \times 8+8)) + ((8+8)/8)) \\
&:= 9 + (((9+9) \times ((9+9)/9)^9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9227 &:= 11 + ((11-1-1) \times (1+(1+1)^{11-1})) \\
&:= 22/2 + (2 \times 2 \times (22+2))^2 \\
&:= (((3 \times (3+3)) + 3)^3) - 3/3 - 33 \\
&:= 44/4 + (4^4 \times (4 \times (4+4) + 4)) \\
&:= 55/5 + ((5-5/5+5) \times (5-5/5)^5) \\
&:= 66/6 + ((6+6) \times ((6+6) \times ((6+6)/6)^6)) \\
&:= 7 + (((7 \times (7 \times 77 + 777)) + 7/7) + 7) \\
&:= 88/8 + (8 \times (8+8) \times (8 \times 8+8)) \\
&:= 99/9 + ((9+9) \times ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9228 &:= 1 + (11 + ((11-1-1) \times (1+(1+1)^{11-1})) \\
&:= 2 \times (2 \times ((2 \times (22+2))^2 + 2)) + 2) \\
&:= (((3 \times (3+3)) + 3)^3) - 33 \\
&:= 4 + (((4^4 \times (4 \times (4+4) + 4)) + 4) + 4) \\
&:= 5^5 + ((55 \times 555/5) - ((5+5)/5)) \\
&:= 6 + (((6+6) \times ((6+6) \times ((6+6)/6)^6)) + 6) \\
&:= (77+7)/7 \times (777 - (7/7+7)) \\
&:= ((88+8)/8) + (8 \times (8+8) \times (8 \times 8+8)) \\
&:= (99+9)/9 + ((9+9) \times ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9229 &:= 1 + (1 + (11 + ((11-1-1) \times (1+(1+1)^{11-1}))) \\
&:= 2 + ((2 \times 2 \times (22+2))^2 + 22/2) \\
&:= 3/3 + (((3 \times (3+3)) + 3)^3) - 33 \\
&:= 4 + ((4/4 + 4 + 4) \times (4 \times 4^4 + 4/4)) \\
&:= 5^5 + ((55 \times 555/5) - 5/5) \\
&:= 6 + (((6+6) \times ((6+6) \times ((6+6)/6)^6)) + 6/6 + 6) \\
&:= 77/7 \times (((77 \times 77 - 7)/7) - 7) \\
&:= 88 + ((88 \times (88+8+8)) - (88/8)) \\
&:= 99 + (9999/9 + 9 \times 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9230 &:= 1 + (1 + (1 + (11 + ((11-1-1) \times (1+(1+1)^{11-1})))) \\
&:= 2 + (2 \times (2 \times ((2 \times (22+2))^2 + 2)) + 2) \\
&:= 3 + (((3 \times (3+3)) + 3)^3) - (3/3 + 33) \\
&:= 4 + ((4^4 \times (4 \times (4+4) + 4)) + (44-4)/4) \\
&:= 5^5 + (55 \times 555/5) \\
&:= (6/6 - 66) \times (((6+6)/6) - (6+6) \times (6+6)) \\
&:= 7 + (((7 \times (7+7) - ((7+7)/7))^{(7+7)/7}) + 7) \\
&:= 8 + (((8 \times (8+8) \times (8 \times 8+8)) - ((8+8)/8)) + 8) \\
&:= 9 + (((9+9) \times ((9+9)/9)^9) + ((9 \times 9+9)/(9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9231 &:= 11 + (((11-1-1) \times (1+(1+1)^{11})) - 1)/(1+1) \\
&:= 2 + (((2 \times 2 \times (22+2))^2 + 22/2) + 2) \\
&:= 3 + (((3 \times (3+3)) + 3)^3) - 33 \\
&:= 4 + ((4^4 \times (4 \times (4+4) + 4)) + 44/4) \\
&:= 5^5 + ((55 \times 555/5) + 5/5) \\
&:= (66/6 + 6) \times (666/6 + (6 \times (66+6))) \\
&:= 7 \times 7 \times 7 + ((7/7+7) \times 7777/7) \\
&:= 8 + (((8 \times (8+8) \times (8 \times 8+8)) - 8/8) + 8) \\
&:= 9 + (999/9 \times (((9+9)/9) + 9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9232 &:= ((11 \times (1+11))^{1+1}) - ((1+1)^{1+1+11}) \\
&:= 2 \times (2 \times (((2 \times (22+2))^2 + 2) + 2)) \\
&:= 3 + (((3 \times (3+3)) + 3)^3) - 33 + 3/3 \\
&:= 4 \times ((4^4 \times (4+4) + 4^4) + 4) \\
&:= 5^5 + ((55 \times 555/5) + ((5+5)/5)) \\
&:= 6 + (((6+6)/6 + 6 + 6) \times (666 - 6/6 - 6)) \\
&:= (7/7 + 7) \times ((77 \times (7+7) - 7/7) + 77) \\
&:= 8 + ((8 \times (8+8) \times (8 \times 8+8)) + 8) \\
&:= (9 \times (999+9+9) + 9) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9233 &:= ((11-1-1) \times (1+1+(1+1)^{11-1})) - 1 \\
&:= 2/2 + ((2 \times 2 \times (22+2))^2 + 2^{2+2}) \\
&:= (((3 \times (3+3)) + 3)^3) - (3^3 + 3/3) \\
&:= 4 \times 4 + ((4^4 \times (4 \times (4+4) + 4)) + 4/4) \\
&:= 5 + (((55 \times 555/5) - ((5+5)/5)) + 5^5) \\
&:= (6/6 + 6) \times (((6+6) \times (666-6)) - 6)/6) \\
&:= ((77+7) \times (777-7)/7) - 7 \\
&:= 8 + (((8 \times (8+8) \times (8 \times 8+8)) + 8/8) + 8) \\
&:= (9 \times (999+9+9) + 9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9234 &:= (11-1-1) \times (1+1+(1+1)^{11-1}) \\
&:= (22^2 + 2) \times (22 - (2/2 + 2)) \\
&:= 3^3 \times (333 + 3 \times 3) \\
&:= (4/4 + 4 + 4) \times ((4+4)/4 + 4 \times 4^4) \\
&:= 5 + (((55 \times 555/5) - 5/5) + 5^5) \\
&:= (66 \times ((6+6) \times (6+6) + 6)) - 666 \\
&:= 7/7 + (((77+7) \times (777-7)/7) - 7) \\
&:= (8/8 + 8) \times (8 \times 8 \times (8+8) + ((8+8)/8)) \\
&:= 9 \times (999+9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9235 &:= 1 + ((11-1-1) \times (1+1+(1+1)^{11-1})) \\
&:= 22 + ((2 \times 2 \times (22+2))^2 - (2/2 + 2)) \\
&:= 3/3 + (3^3 \times (333 + 3 \times 3)) \\
&:= 4 + (((4^4 \times (4 \times (4+4) + 4)) + 44/4) + 4) \\
&:= 5 + ((55 \times 555/5) + 5^5) \\
&:= 6/6 + ((66 \times ((6+6) \times (6+6) + 6)) - 666) \\
&:= 7 + ((77+7)/7 \times (777 - (7/7+7))) \\
&:= 8 + ((8 \times (8+8) \times (8 \times 8+8)) + (88/8)) \\
&:= 9/9 + (9 \times (999+9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9236 &:= 11 + ((11-1-1) \times (1+(1+1)^{11-1})) \\
&:= 22 + ((2 \times 2 \times (22+2))^2 - 2) \\
&:= 3 + (((3 \times (3+3)) + 3)^3) - (3^3 + 3/3) \\
&:= 4 + ((4^4 \times (4 \times (4+4) + 4)) + 4 \times 4) \\
&:= 5 + (((55 \times 555/5) + 5^5) + 5/5) \\
&:= 6 + ((6/6 - 66) \times (((6+6)/6) - (6+6) \times (6+6))) \\
&:= 7 + (77/7 \times (((77 \times 77 - 7)/7) - 7)) \\
&:= 8 + ((8 \times (8+8) \times (8 \times 8+8)) + ((88+8)/8)) \\
&:= 9 + (((9+9) \times ((9+9)/9)^9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9237 &:= 1 + (11 + ((11-1-1) \times (1+(1+1)^{11-1}))) \\
&:= 22 + ((2 \times 2 \times (22+2))^2 - 2/2) \\
&:= 3 + (3^3 \times (333 + 3 \times 3)) \\
&:= 4 + (((4^4 \times (4 \times (4+4) + 4)) + 4 \times 4) + 4/4) \\
&:= 5 + (((55 \times 555/5) + ((5+5)/5)) + 5^5) \\
&:= ((666/6 + 6) \times (66 + 6/6 + 6 + 6)) - 6 \\
&:= 7 + (((7 \times (7+7) - ((7+7)/7))^{(7+7)/7}) + 7) + 7) \\
&:= 8 + (((88 \times (88+8+8)) - (88/8)) + 88) \\
&:= 9 + (((9+9) \times ((9+9)/9)^9) + (99+9)/9)
\end{aligned}$$

- 9238 := $11 + (11 + ((11 - 1 - 1) \times (1 + 1)^{11-1}))$
:= $22 + (2 \times 2 \times (22 + 2))^2$
:= $3 + ((3^3 \times (333 + 3 \times 3)) + 3/3)$
:= $4 + ((4/4 + 4 + 4) \times ((4 + 4)/4 + 4 \times 4^4))$
:= $5 \times 5 + ((5 - (5 + 5)/5) \times ((5^5 - 55) + 5/5))$
:= $((6 + 6)/6) \times ((66 \times ((6 + 6)/6)^6 + 6)) - 6/6$
:= $((77 + 7) \times (777 - 7)/7) - (7 + 7)/7$
:= $88 + ((88 \times (88 + 8 + 8)) - ((8 + 8)/8))$
:= $((9 + 9)/9) \times (9 \times ((9 + 9)/9)^9 + (99/9))$
- 9239 := $((11 + (11 - 1))^{1+1+1}) - 11 - 11$
:= $((22 - 2/2)^{2/2+2}) - 22$
:= $33/3 + (((3 \times (3 + 3)) + 3)^3) - 33$
:= $((4 + 4) \times (4444/4 + 44)) - 4/4$
:= $5^5 + ((5/5 + 5) \times ((5 - 5/5)^5 - 5))$
:= $((666 - 6) \times ((6 + 6)/6 + 6 + 6)) - 6/6$
:= $((77 + 7) \times (777 - 7)/7) - 7/7$
:= $88 + ((88 \times (88 + 8 + 8)) - 8/8)$
:= $9 \times 9 \times 99 + (((99 \times 999/9) - 9)/9)$
- 9240 := $11 \times (111 + (11 - 1 - 1)^{1+1+1})$
:= $(2 - 22) \times (22 - 22^2)$
:= $(3^3 + 3/3) \times (333 - 3)$
:= $(4 + 4) \times (4444/4 + 44)$
:= $(5 + 5 + 5) \times ((5^5 + 5)/5 - (5 + 5))$
:= $(666 - 6) \times ((6 + 6)/6 + 6 + 6)$
:= $(77 + 7) \times (777 - 7)/7$
:= $88 + (88 \times (88 + 8 + 8))$
:= $99/9 \times (999/9 + 9 \times 9 \times 9)$
- 9241 := $1 + (11 \times (111 + (11 - 1 - 1)^{1+1+1}))$
:= $2 + (((22 - 2/2)^{2/2+2}) - 22)$
:= $3/3 + ((3^3 + 3/3) \times (333 - 3))$
:= $4 \times 4 + ((4/4 + 4 + 4) \times (4 \times 4^4 + 4/4))$
:= $5 \times 5 + ((5 - 5/5 + 5) \times (5 - 5/5)^5)$
:= $6/6 + ((666 - 6) \times ((6 + 6)/6 + 6 + 6))$
:= $7/7 + ((77 + 7) \times (777 - 7)/7)$
:= $8/8 + ((88 \times (88 + 8 + 8)) + 88)$
:= $9 + ((9 \times ((999 + 9 + 9) + 9)) - ((9 + 9)/9))$
- 9242 := $((11 - 1 - 1) \times (1 + 1 + 1 + (1 + 1)^{11-1})) - 1$
:= $2 + ((2 - 22) \times (22 - 22^2))$
:= $((3 \times (3 + 3)) + 3)^3 - ((3 \times (3 + 3)) + 3/3)$
:= $4 + (((4/4 + 4 + 4) \times ((4 + 4)/4 + 4 \times 4^4)) + 4)$
:= $5 \times 5 + (((5 - 5/5 + 5) \times (5 - 5/5)^5) + 5/5)$
:= $(6 + 6)/6 + ((666 - 6) \times ((6 + 6)/6 + 6 + 6))$
:= $(7 + 7)/7 + ((77 + 7) \times (777 - 7)/7)$
:= $8 + ((8/8 + 8) \times (8 \times 8 \times (8 + 8) + ((8 + 8)/8)))$
:= $9 + ((9 \times ((999 + 9 + 9) + 9)) - 9/9)$
- 9243 := $(11 - 1 - 1) \times (1 + 1 + 1 + (1 + 1)^{11-1})$
:= $2 + (((22 - 2/2)^{2/2+2}) - 22) + 2$
:= $((3 \times (3 + 3)) + 3)^3 - (3 \times (3 + 3))$
:= $(4/4 + 4 + 4) \times ((4 \times 4^4 - 4/4) + 4)$
:= $(5 - (5 + 5)/5) \times ((55/5 - 55) + 5^5)$
:= $(666/6 + 6) \times (66 + 6/6 + 6 + 6)$
:= $((7 + 7 + 7)/7)^7 + ((77 + 7)^{(7+7)/7})$
:= $8 + (((8 \times (8 + 8) \times (8 \times 8 + 8)) + (88/8)) + 8)$
:= $9 + (9 \times ((999 + 9 + 9) + 9))$
- 9244 := $1 + ((11 - 1 - 1) \times (1 + 1 + 1 + (1 + 1)^{11-1}))$
:= $2 \times (((2^{2+2+2} + 2) + 2)^2) - 2$
:= $3/3 + (((3 \times (3 + 3)) + 3)^3) - (3 \times (3 + 3))$
:= $4 + ((4 + 4) \times (4444/4 + 44))$
:= $5 + (((5/5 + 5) \times ((5 - 5/5)^5 - 5)) + 5^5)$
:= $((6 + 6)/6)^{6+6} + 66 \times (66 + 6 + 6)$
:= $(77/7 \times ((77 \times 77 + 7)/7) - 7) - 7$
:= $8888 + ((8 \times 88 + 8)/(8 + 8)/8)$
:= $9 + ((9 \times ((999 + 9 + 9) + 9)) + 9/9)$
- 9245 := $11 + ((11 - 1 - 1) \times (1 + 1 + (1 + 1)^{11-1}))$
:= $(2/2 + 2 + 2) \times (((2 \times 22) - 2/2)^2)$
:= $33/3 + (3^3 \times (333 + 3 \times 3))$
:= $(4/4 + 4) \times ((44 - 4/4)^{(4+4)/4})$
:= $((5 + 5 + 5) \times (5^5/5 - 5)) - 55$
:= $(6 \times 6 + 6/6 + 6) \times (6 \times 6 \times 6 - 6/6)$
:= $7 \times 7 + ((7/7 - 77) \times (7 - ((7 + 7)/7)^7))$
:= $(88/8 \times (888 - 8/8)) - 8 \times 8 \times 8$
:= $99/9 + (9 \times ((999 + 9 + 9) + 9))$
- 9246 := $(1 + 1) \times (((1 + 1) \times (1 + 11 \times (1 + 1 + 1)))^{1+1}) - 1$
:= $(22 + 2/2) \times ((22 - 2)^2 + 2)$
:= $3 + (((3 \times (3 + 3)) + 3)^3) - (3 \times (3 + 3))$
:= $4/4 + ((4/4 + 4) \times ((44 - 4/4)^{(4+4)/4}))$
:= $5 + (((5 - 5/5 + 5) \times (5 - 5/5)^5) + 5 \times 5)$
:= $(6 \times 66 + 6) \times ((66/6 + 6) + 6)$
:= $7 + (((77 + 7) \times (777 - 7)/7) - 7/7)$
:= $8 + (((88 \times (88 + 8 + 8)) - ((8 + 8)/8)) + 88)$
:= $99 \times 99 + ((9 - 9999)/(9 + 9))$
- 9247 := $((11 + (11 - 1))^{1+1+1}) - 1 - 1 - 1 - 11$
:= $(2 \times (((2^{2+2+2} + 2) + 2)^2)) - 2/2$
:= $((3 \times (3 + 3)) + 3)^3 - (33/3 + 3)$
:= $4^4 + ((4 - 4/4)^4 \times 444/4)$
:= $((5 - (5 + 5)/5) \times (5^5 - 5/5)) - 5 \times 5 \times 5$
:= $6/6 + ((6 \times 66 + 6) \times ((66/6 + 6) + 6))$
:= $7 + ((77 + 7) \times (777 - 7)/7)$
:= $8 + (((88 \times (88 + 8 + 8)) - 8/8) + 88)$
:= $9 \times 999 + (((9 + 9)/9)^{9-9/9})$
- 9248 := $(1 + 1) \times (((1 + 1) \times (1 + 11 \times (1 + 1 + 1)))^{1+1})$
:= $2 \times (((2^{2+2+2} + 2) + 2)^2)$
:= $((3 - 33)/3) + (((3 \times (3 + 3)) + 3)^3) - 3$
:= $4 \times (((4^4 \times (4 + 4) + 4^4) + 4) + 4)$
:= $((5 + 5)/5)^5 \times (5 \times (55 + 5) - (55/5))$
:= $((6 + 6)/6) \times (((6 + 6)/6 + 66)^{(6+6)/6})$
:= $7 + (((77 + 7) \times (777 - 7)/7) + 7/7)$
:= $8 + ((88 \times (88 + 8 + 8)) + 88)$
:= $((9 - 9/9) + 9) \times (99 \times 99 - 9)/(9 + 9)$
- 9249 := $((11 + (11 - 1))^{1+1+1}) - 1 - 11$
:= $2/2 + (2 \times (((2^{2+2+2} + 2) + 2)^2))$
:= $((3 \times (3 + 3)) + 3)^3 - (3 \times 3 + 3)$
:= $4 + ((4/4 + 4) \times ((44 - 4/4)^{(4+4)/4}))$
:= $(5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) - 5))) - 5/5$
:= $6 + ((666/6 + 6) \times (66 + 6/6 + 6 + 6))$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - (77 + 7)/7$
:= $8 + (((88 \times (88 + 8 + 8)) + 88) + 8/8)$
:= $9 + ((99/9) \times (999/9 + 9 \times 9 \times 9))$
- 9250 := $((11 + (11 - 1))^{1+1+1}) - 11$
:= $2 + (2 \times (((2^{2+2+2} + 2) + 2)^2))$
:= $((3 \times (3 + 3)) + 3)^3 - 33/3$
:= $((4/4 + 4 + 4) \times (4 \times 4^4 + 4)) - (4 + 4)/4$
:= $5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) - 5))$
:= $(6 \times 6 + 6/6) \times (6 \times (6 \times 6 + 6) - ((6 + 6)/6))$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 77/7$
:= $8 + (((8/8 + 8) \times (8 \times 8 \times (8 + 8) + ((8 + 8)/8))) + 8)$
:= $99 + ((9 \times (999 + 9 + 9)) - ((9 + 9)/9))$
- 9251 := $1 + (((11 + (11 - 1))^{1+1+1}) - 11)$
:= $2 + ((2 \times (((2^{2+2+2} + 2) + 2)^2)) + 2/2)$
:= $((3 - 33)/3) + (((3 \times (3 + 3)) + 3)^3)$
:= $((4/4 + 4 + 4) \times (4 \times 4^4 + 4)) - 4/4$
:= $5/5 + (5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) - 5)))$
:= $6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6) - 6/6$
:= $77/7 \times (((77 \times 77 + 7)/7) - 7)$
:= $88 + ((88 \times (88 + 8 + 8)) + (88/8))$
:= $99 + ((9 \times (999 + 9 + 9)) - 9/9)$
- 9252 := $1 + (1 + (((11 + (11 - 1))^{1+1+1}) - 11))$
:= $2 \times (((2^{2+2+2} + 2) + 2)^2) + 2$
:= $((3 \times (3 + 3)) + 3)^3 - 3 \times 3$
:= $(4/4 + 4 + 4) \times (4 \times 4^4 + 4)$
:= $5^5 + (55/5 \times (555 + (5 + 5)/5))$
:= $6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6)$
:= $(77 + 7)/7 \times ((777 - 7) + 7/7)$
:= $(8/8 + 8) \times (8 \times 8 \times (8 + 8) + 8 \times 8/(8 + 8))$
:= $99 + (9 \times (999 + 9 + 9))$

$$\begin{aligned}
\blacktriangleright 9253 &:= 1 + (1 + (1 + ((11 + (11 - 1))^{1+1+1}) - 11))) \\
&:= ((22 - 2/2)^{2/2+2}) - 2 \times (2 + 2) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) - 33/3 \\
&:= 4/4 + ((4/4 + 4 + 4) \times (4 \times 4^4 + 4)) \\
&:= ((5 - (5 + 5)/5) \times (5^5 + 5/5)) - 5 \times 5 \times 5 \\
&:= 6/6 + 6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6) \\
&:= (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - (7/7 + 7) \\
&:= (((88 + 8 + 8)/8 + 8)^{88/8-8}) - 8 \\
&:= 9/9 + ((9 \times (999 + 9 + 9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9254 &:= 1 + (1 + (1 + (1 + ((11 + (11 - 1))^{1+1+1}) - 11)))) \\
&:= 2 + (2 \times (((2^{2+2+2} + 2) + 2)^2) + 2) \\
&:= (((3 \times (3 + 3)) + 3)^3) - (3/3 + 3 + 3) \\
&:= (4 + 4)/4 + ((4/4 + 4 + 4) \times (4 \times 4^4 + 4)) \\
&:= 5 + ((5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) - 5))) - 5/5) \\
&:= (6 + 6)/6 + 6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6) \\
&:= (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 7 \\
&:= ((8/8 + 88) \times (88 + 8 + 8)) - (8 + 8)/8 \\
&:= 9 + ((9 \times ((999 + 9 + 9) + 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9255 &:= ((11 + (11 - 1))^{1+1+1}) - ((1 + 1) \times (1 + 1 + 1)) \\
&:= ((22 - 2/2)^{2/2+2}) - 2 - 2 - 2 \\
&:= (((3 \times (3 + 3)) + 3)^3) - 3 - 3 \\
&:= (44/4 + 4) \times ((4/4 + 4)^4 - (4 + 4)) \\
&:= 5 + (5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) - 5))) \\
&:= (((6 \times 6 + 6)/(6 + 6/6))^{6 \times 6/(6+6)}) - 6 \\
&:= 7/7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 7) \\
&:= ((8/8 + 88) \times (88 + 8 + 8)) - 8/8 \\
&:= 999/9 + ((9 \times (999 + 9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9256 &:= ((11 + (11 - 1))^{1+1+1}) - 1 - 1 - 1 - 1 - 1 \\
&:= 2 \times (((2^{2+2+2} + 2) + 2)^2) + 2) \\
&:= 3/3 + (((3 \times (3 + 3)) + 3)^3) - (3 + 3) \\
&:= 4 + ((4/4 + 4 + 4) \times (4 \times 4^4 + 4)) \\
&:= ((5 - 5/5 + 5) \times ((5 - 5/5)^5 + 5)) - 5 \\
&:= 6 + ((6 \times 6 + 6/6) \times (6 \times (6 \times 6 + 6) - ((6 + 6)/6))) \\
&:= (7 + 7)/7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 7) \\
&:= (8/8 + 88) \times (88 + 8 + 8) \\
&:= 9 + (((9 + 9)/9)^{9-9/9}) + 9 \times 999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9257 &:= ((11 + (11 - 1))^{1+1+1}) - 1 - 1 - 1 - 1 \\
&:= ((22 - 2/2)^{2/2+2}) - 2 - 2 \\
&:= (((3 \times (3 + 3)) + 3)^3) - (3/3 + 3) \\
&:= (((4 \times 4 + 4/4) + 4)^{4-4/4}) - 4 \\
&:= 5 + ((55/5 \times (555 + (5 + 5)/5)) + 5^5) \\
&:= 6 + (6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6) - 6/6) \\
&:= 7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - (77/7)) \\
&:= 8/8 + ((8/8 + 88) \times (88 + 8 + 8)) \\
&:= 99 \times 99 + ((9 - 99 \times 99)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9258 &:= ((11 + (11 - 1))^{1+1+1}) - 1 - 1 - 1 \\
&:= 2 \times 22 + ((2 \times 2 \times (22 + 2))^2 - 2) \\
&:= (((3 \times (3 + 3)) + 3)^3) - 3 \\
&:= 44 + ((4^4 \times (4 \times (4 + 4) + 4)) - (4 + 4)/4) \\
&:= 5 + (((5 - (5 + 5)/5) \times (5^5 + 5/5)) - 5 \times 5 \times 5) \\
&:= 6 + 6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6) \\
&:= 7 + (77/7 \times (((77 \times 77 + 7)/7) - 7)) \\
&:= (8 + 8)/8 + ((8/8 + 88) \times (88 + 8 + 8)) \\
&:= 9999 - ((99 + 9)/9 + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9259 &:= ((11 + (11 - 1))^{1+1+1}) - 1 - 1 \\
&:= ((22 - 2/2)^{2/2+2}) - 2 \\
&:= 3/3 + (((3 \times (3 + 3)) + 3)^3) - 3 \\
&:= 44 + ((4^4 \times (4 \times (4 + 4) + 4)) - 4/4) \\
&:= 5^5 + ((5^5 - (555/5 + 5)) + 5^5) \\
&:= 6 + (6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6) + 6/6) \\
&:= (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - (7 + 7)/7 \\
&:= 8 + (((88 \times (88 + 8 + 8)) + (88/8)) + 88) \\
&:= 9999 - (9 \times 9 \times 9 + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9260 &:= ((11 + (11 - 1))^{1+1+1}) - 1 \\
&:= 2 \times ((2 \times ((2 \times (22 + 2))^2)) + 22) \\
&:= (((3 \times (3 + 3)) + 3)^3) - 3/3 \\
&:= 44 + (4^4 \times (4 \times (4 + 4) + 4)) \\
&:= 5 + ((5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) - 5))) + 5) \\
&:= (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - ((6 + 6)/6)^6 \\
&:= (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 7/7 \\
&:= (88/((8 + 8)/8)) + (8 \times (8 + 8) \times (8 \times 8 + 8)) \\
&:= (((9 + 9)/9)^9) + 9 \times 9 \times (99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9261 &:= (11 + (11 - 1))^{1+1+1} \\
&:= (22 - 2/2)^{2/2+2} \\
&:= ((3 \times (3 + 3)) + 3)^3 \\
&:= ((4 \times 4 + 4/4) + 4)^{4-4/4} \\
&:= (5 - 5/5 + 5) \times ((5 - 5/5)^5 + 5) \\
&:= ((6 \times 6 + 6)/(6 + 6/6))^{6 \times 6/(6+6)} \\
&:= 7 \times (7 \times ((7 + 7) \times (7 + 7) - 7)) \\
&:= ((88 + 8 + 8)/8 + 8)^{88/8-8} \\
&:= 9999 - (9 \times 9 \times 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9262 &:= 1 + ((11 + (11 - 1))^{1+1+1}) \\
&:= 2/2 + ((22 - 2/2)^{2/2+2}) \\
&:= 3/3 + (((3 \times (3 + 3)) + 3)^3) \\
&:= 4/4 + (((4 \times 4 + 4/4) + 4)^{4-4/4}) \\
&:= 5/5 + ((5 - 5/5 + 5) \times ((5 - 5/5)^5 + 5)) \\
&:= 6/6 + (((6 \times 6 + 6)/(6 + 6/6))^{6 \times 6/(6+6)}) \\
&:= 7/7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) \\
&:= (888 - 8)/8 + (88 \times (88 + 8 + 8)) \\
&:= 9/9 + (9999 - (9 \times 9 \times 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9263 &:= 1 + (1 + ((11 + (11 - 1))^{1+1+1})) \\
&:= 2 + ((22 - 2/2)^{2/2+2}) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) - 3/3 \\
&:= (44 \times (4^4 - 44)) - (4^4 + 4)/4 \\
&:= 5^5 + ((5^5 - (555 + 5)/5) + 5^5) \\
&:= 66/6 + 6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6) \\
&:= (7 + 7)/7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) \\
&:= 888/8 + (88 \times (88 + 8 + 8)) \\
&:= 99 + ((9 \times (999 + 9 + 9)) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9264 &:= 1 + (1 + (1 + ((11 + (11 - 1))^{1+1+1}))) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 2/2) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) \\
&:= 4 + ((4^4 \times (4 \times (4 + 4) + 4)) + 44) \\
&:= 5^5 + ((5^5 - 555/5) + 5^5) \\
&:= 6 + (6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6) + 6) \\
&:= (7 + 7 + 7)/7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) \\
&:= 8 + ((8/8 + 88) \times (88 + 8 + 8)) \\
&:= 999/9 + (9 \times (999 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9265 &:= 1 + (1 + (1 + (1 + ((11 + (11 - 1))^{1+1+1})))) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 2) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) + 3/3 \\
&:= 4 + (((4 \times 4 + 4/4) + 4)^{4-4/4}) \\
&:= 5^5 + ((5 + 5) \times ((5^5 - 55)/5)) \\
&:= 6 + ((6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) - 6) + 6/6) + 6) \\
&:= 7 \times 7 + ((7 \times (7 + 7) - ((7 + 7)/7))^{(7+7)/7}) \\
&:= 8 + (((8/8 + 88) \times (88 + 8 + 8)) + 8/8) \\
&:= 9 \times 9 + ((9/9 + 9 \times 9) \times ((999 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9266 &:= (1 + 1 + 111) \times (1 + (11 - 1 - 1)^{1+1}) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 2/2) + 2) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) - 3/3 + 3) \\
&:= 4 + (((4 \times 4 + 4/4) + 4)^{4-4/4}) + 4/4 \\
&:= 5 + ((5 - 5/5 + 5) \times ((5 - 5/5)^5 + 5)) \\
&:= 6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - ((6 + 6)/6)^6) \\
&:= 7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - ((7 + 7)/7)) \\
&:= 8 + (((8/8 + 88) \times (88 + 8 + 8)) + ((8 + 8)/8)) \\
&:= (9/9 + 9 \times 9) \times ((999 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9267 &:= 1 + ((1 + 1 + 111) \times (1 + (11 - 1 - 1)^{1+1})) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 2) + 2) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) + 3) \\
&:= 4 + ((44 \times (4^4 - 44)) - (4^4 + 4)/4) \\
&:= 5^5 + ((5 + 5)/5 \times ((5^5 - 55) + 5/5)) \\
&:= 6 + (((6 \times 6 + 6)/(6 + 6/6))^{6 \times 6/(6+6)}) \\
&:= 7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 7/7) \\
&:= 88/8 + ((8/8 + 88) \times (88 + 8 + 8)) \\
&:= 9999 - (((9 + 9 + 9)/9) + 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9268 &:= 1 + (1 + ((1 + 1 + 111) \times (1 + (11 - 1 - 1)^{1+1}))) \\
&:= 2 \times ((2 \times ((2 \times (22 + 2)^2) + 2)) + 22) \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + 3/3 + 3) \\
&:= 4 + (((4^4 \times (4 \times (4 + 4) + 4)) + 44) + 4) \\
&:= 5^5 + (((5/5 + 5) \times (5 - 5/5)^5) - 5/5) \\
&:= (6/6 + 6) \times ((6 \times (6 \times 6 \times 6 - 6)) + ((6 + 6)/6)^6) \\
&:= 7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) \\
&:= (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - (88 + 8)/8 \\
&:= 9999 - (9 \times 9 \times 9 + (9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9269 &:= 11 + (((11 + (11 - 1))^{1+1+1}) - (1 + 1 + 1)) \\
&:= 2 \times (2 + 2) + ((22 - 2/2)^{2/2+2}) \\
&:= 3 \times 3 + (((3 \times (3 + 3)) + 3^3) - 3/3) \\
&:= 4 + (((4 \times 4 + 4/4) + 4)^{4-4/4}) + 4) \\
&:= 5^5 + ((5/5 + 5) \times (5 - 5/5)^5) \\
&:= ((66/6 + 6) + 6) \times ((6 \times 66 + 6/6) + 6) \\
&:= 7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) + 7/7) \\
&:= (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - 88/8 \\
&:= 9999 - (9 \times 9 \times 9 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9270 &:= 11 + (((11 + (11 - 1))^{1+1+1}) - (1 + 1)) \\
&:= 22 + (2 \times (((2^{2+2+2} + 2) + 2)^2)) \\
&:= 3 \times 3 + (((3 \times (3 + 3)) + 3^3) \\
&:= (4/4 + 4 + 4) \times (((4 + 4)/4 + 4 \times 4^4) + 4) \\
&:= 5^5 + ((55 \times 55 - 5) + 5^5) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6 - 6 - 6 \\
&:= 7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) + ((7 + 7)/7)) \\
&:= ((8 + 8)/8 + 88) \times (888/8 - 8) \\
&:= 9999 - 9 \times 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9271 &:= 11 + (((11 + (11 - 1))^{1+1+1}) - 1) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 2 \times (2 + 2)) \\
&:= 3 \times 3 + (((3 \times (3 + 3)) + 3^3) + 3/3) \\
&:= 44 + ((4^4 \times (4 \times (4 + 4) + 4)) + 44/4) \\
&:= 55 + ((5 - 5/5 + 5) \times (5 - 5/5)^5) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - (66/6 + 6) \\
&:= ((77 - 7)/7) + (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) \\
&:= ((8/8 + 8 \times 8) + 8) \times (8 \times (8 + 8) - 8/8) \\
&:= 9/9 + (9999 - 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9272 &:= 11 + ((11 + (11 - 1))^{1+1+1}) \\
&:= 22/2 + ((22 - 2/2)^{2/2+2}) \\
&:= 33/3 + (((3 \times (3 + 3)) + 3^3) \\
&:= (4 + 4) \times ((4444/4 + 44) + 4) \\
&:= 5 + (((5 + 5)/5) \times ((5^5 - 55) + 5/5)) + 5^5 \\
&:= (6 - 66)/6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6) \\
&:= 77/7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) \\
&:= (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - 8 \\
&:= (9 + 9)/9 + (9999 - 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9273 &:= 1 + (11 + ((11 + (11 - 1))^{1+1+1})) \\
&:= (2 \times (2 + 2 + 2)) + ((22 - 2/2)^{2/2+2}) \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + 3 \times 3) \\
&:= 4 + (((4 \times 4 + 4/4) + 4)^{4-4/4}) + 4) + 4) \\
&:= 5^5 + ((55 \times 55 - (5 + 5)/5) + 5^5) \\
&:= 6 + (((6 \times 6 + 6)/(6 + 6)/6))^{6 \times 6/(6 + 6)} + 6) \\
&:= 77 + ((7/7 - 77) \times (7 - ((7 + 7)/7)^7)) \\
&:= 8/8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - 8) \\
&:= 9 + (9 \times (999 + 9 + 9)) + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9274 &:= 1 + (1 + (11 + ((11 + (11 - 1))^{1+1+1}))) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 22/2) \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + 3/3 + 3 \times 3) \\
&:= 4 + ((4/4 + 4 + 4) \times (((4 + 4)/4 + 4 \times 4^4) + 4)) \\
&:= 5 + (((5/5 + 5) \times (5 - 5/5)^5) + 5^5) \\
&:= (((6 + 6)/6)^6 \times ((6 + 6) \times (6 + 6) + 6/6)) - 6 \\
&:= 7 + (((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) - 7/7) + 7) \\
&:= (8 + 8)/8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - 8) \\
&:= 9 + (((9/9 + 9 \times 9) \times ((999 + 9)/9)) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9275 &:= 1 + (1 + (1 + (11 + ((11 + (11 - 1))^{1+1+1})))) \\
&:= 2^{2+2} + (((22 - 2/2)^{2/2+2}) - 2) \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + 33/3) \\
&:= (4^4 - 44)/4 \times (4 \times 44 - 4/4) \\
&:= 5^5 + (55 \times 55 + 5^5) \\
&:= (6/6 + 6) \times ((6 \times (6 \times 6 \times 6 + 6)) - (6/6 + 6)) \\
&:= 7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) + 7) \\
&:= (8 \times 8 - 88/8) \times (888/8 + 8 \times 8) \\
&:= 9 + (9/9 + 9 \times 9) \times ((999 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9276 &:= 1 + (1 + (1 + (1 + (11 + ((11 + (11 - 1))^{1+1+1})))))) \\
&:= 2 \times (2 \times ((2 \times (22 + 2)^2) + 2) + 2) + 22) \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + 3 \times 3) + 3) \\
&:= (4 \times (4 \times (4 \times 4^4 - 444))) - 4 \\
&:= (5/5 + 5)^5 + (5 \times 5 \times (55 + 5)) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6 - 6 \\
&:= 7 + (((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) + 7/7) + 7) \\
&:= (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - 8 \times 8/(8 + 8) \\
&:= 9 + (9999 - (((9 + 9 + 9)/9) + 9 \times 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9277 &:= 11 + ((1 + 1 + 111) \times (1 + (11 - 1 - 1)^{1+1})) \\
&:= 2^{2+2} + ((22 - 2/2)^{2/2+2}) \\
&:= 3^3 + (((3 \times (3 + 3)) + 3^3) - 33/3) \\
&:= 4 \times 4 + (((4 \times 4 + 4/4) + 4)^{4-4/4}) \\
&:= 5^5 + ((55 \times 55 + ((5 + 5)/5)) + 5^5) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 66/6 \\
&:= 7 + (((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) + ((7 + 7)/7)) + 7) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - (88/8)) \\
&:= 9 + (9999 - (9 \times 9 \times 9 + ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9278 &:= 1 + (11 + ((1 + 1 + 111) \times (1 + (11 - 1 - 1)^{1+1}))) \\
&:= 2222 + ((2 \times ((2 \times 22) - 2))^2) \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + 33/3 + 3) \\
&:= (4^4 - 4 - 4)/4 + (4^4 \times (4 \times (4 + 4) + 4)) \\
&:= 5 + (((55 \times 55 - ((5 + 5)/5)) + 5^5) + 5^5) \\
&:= (6 - 66)/6 + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) \\
&:= 7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) + ((77 - 7)/7)) \\
&:= (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - (8 + 8)/8 \\
&:= 9 + (9999 - (9 \times 9 \times 9 + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9279 &:= 1111 + ((1 + 1) \times (((1 + 1)^{1+1+1}) - (1 + 1))) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 2^{2+2}) \\
&:= (3 \times (3 + 3)) + (((3 \times (3 + 3)) + 3^3) \\
&:= ((4^4 - 4)/4) + (4^4 \times (4 \times (4 + 4) + 4)) \\
&:= (5 - (5 + 5)/5) \times (5^5 - ((5 + 5)/5)^5) \\
&:= 66 + (666/6 \times (66/6 + 66 + 6)) \\
&:= 7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) + (77/7)) \\
&:= (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - 8/8 \\
&:= 9 + (9999 - 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9280 &:= (1 + (1 + 11))^{1+1} \times ((1 + 1)^{(1+1) \times (1+1+1)}) \\
&:= (2 - 22) \times (22 - (22^2 + 2)) \\
&:= 3/3 + (((3 \times (3 + 3)) + 3^3) + (3 \times (3 + 3))) \\
&:= 4 \times (4 \times (4 \times 4^4 - 444)) \\
&:= 5 + ((55 \times 55 + 5^5) + 5^5) \\
&:= ((6 + 6)/6)^6 \times ((6 + 6) \times (6 + 6) + 6/6) \\
&:= (7/7 + 7) \times (7777/7 + 7 \times 7) \\
&:= 8 \times ((8 + 8) \times (8 \times 8 + 8) + 8) \\
&:= 99 \times 99 - (((9 + 9)/9)^9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9281 &:= 1111 + ((1 + 1) \times (((1 + 1)^{1+1+1}) - 1)) \\
&:= 22 + (((22 - 2/2)^{2/2+2}) - 2) \\
&:= 3 \times 3 + (((3 \times (3 + 3)) + 3^3) + 33/3) \\
&:= 4/4 + (4 \times (4 \times (4 \times 4^4 - 444))) \\
&:= 5 + ((5 \times 5 \times (55 + 5)) + (5/5 + 5)^5) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6/6 - 6 \\
&:= 77 + ((7/7 + 77) \times (777/7 + 7)) \\
&:= 8/8 + (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) \\
&:= 99/9 + (9999 - 9 \times 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9282 &:= 11 + (11 + (((11 + (11 - 1))^{1+1+1}) - 1)) \\
&:= ((2 \times 22) - 2) \times (222 - 2/2) \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + (3 \times (3 + 3))) \\
&:= (4 + 4)/4 + (4 \times (4 \times (4 \times 4^4 - 444))) \\
&:= (5 + 5)/5 \times ((5/5 + 5)^5 - (5^5 + 5 + 5)) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6 \\
&:= (7 \times 77 + 7) \times ((77 - 7)/7 + 7) \\
&:= (8 + 8)/8 + (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) \\
&:= ((9/9 + 9 \times 9) + 9) \times (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9283 &:= 11 + (11 + ((11 + (11 - 1))^{1+1+1})) \\
&:= 22 + ((22 - 2/2)^{2/2+2}) \\
&:= 33 + (((3 \times (3 + 3)) + 3)^3) - 33/3 \\
&:= (44 \times (4^4 - 44)) - (44 + 4/4) \\
&:= ((5 + 5 + 5) \times ((5^5 - 5)/5 - 5)) - (5 + 5)/5 \\
&:= 6/6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6) \\
&:= 7/7 + ((7 \times 77 + 7) \times ((77 - 7)/7 + 7)) \\
&:= 88/8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - 8) \\
&:= 99 + ((9/9 + 9 \times 9) \times ((999 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9284 &:= 1 + (11 + (11 + ((11 + (11 - 1))^{1+1+1}))) \\
&:= 22 \times ((22 - 2)^2 + 22) \\
&:= 3^3 + (((3 \times (3 + 3)) + 3)^3) - (3/3 + 3) \\
&:= 44 \times (4^4 - (44 + 4/4)) \\
&:= ((5 + 5 + 5) \times ((5^5 - 5)/5 - 5)) - 5/5 \\
&:= (6 + 6)/6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6) \\
&:= 77/7 \times ((77 \times 77 - (7 + 7 + 7))/7) \\
&:= 88/8 \times (888 - (88/((8 + 8)/8))) \\
&:= 9 + (((9/9 + 9 \times 9) \times ((999 + 9 + 9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9285 &:= ((1 + 1) \times (1 + 11)) + ((11 + (11 - 1))^{1+1+1}) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 22) \\
&:= 3^3 + (((3 \times (3 + 3)) + 3)^3) - 3 \\
&:= 4/4 + (44 \times (4^4 - (44 + 4/4))) \\
&:= (5 + 5 + 5) \times ((5^5 - 5)/5 - 5) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6 \times 6/(6 + 6) \\
&:= (77/7 \times ((77 \times 77 - 7)/7)) - (7 + 7 + 7) \\
&:= 8 + (((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - (88/8)) + 8) \\
&:= (9 \times ((9 \times (99 + 9 + 9)) - 9)) - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9286 &:= (((1 + 1 + 1))^{11-1-1}) - 1111/(1 + 1) \\
&:= 2 + (22 \times ((22 - 2)^2 + 22)) \\
&:= 3^3 + (((3 \times (3 + 3)) + 3)^3) - 3 + 3/3 \\
&:= (4 + 4)/4 + (44 \times (4^4 - (44 + 4/4))) \\
&:= 5/5 + ((5 + 5 + 5) \times ((5^5 - 5)/5 - 5)) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - (6 + 6)/6 \\
&:= 7 + (((7 \times (7 \times ((7 + 7) \times (7 + 7) - 7))) + (77/7)) + 7) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - ((8 + 8)/8)) \\
&:= 9 \times 9 + (((9 + 9) \times ((9 + 9)/9)^9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9287 &:= 1 + (((1 + 1 + 1))^{11-1-1}) - 1111/(1 + 1) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 22) + 2 \\
&:= 3^3 + (((3 \times (3 + 3)) + 3)^3) - 3/3 \\
&:= 4 + (44 \times (4^4 - 44)) - (44 + 4/4) \\
&:= (5 + 5)/5 + ((5 + 5 + 5) \times ((5^5 - 5)/5 - 5)) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6/6 \\
&:= 7 + ((7/7 + 7) \times (7777/7 + 7 \times 7)) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - 8/8) \\
&:= 9 + ((9999 - (9 \times 9 \times 9 + 9/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9288 &:= (1 + 1) \times ((1 + 1) \times (1 + (11 \times ((1 + 1) \times 111 - 11)))) \\
&:= (2 + 2 + 2)^2 \times (2^{2 \times (2+2)} + 2) \\
&:= 3^3 + (((3 \times (3 + 3)) + 3)^3) \\
&:= 4 + (44 \times (4^4 - (44 + 4/4))) \\
&:= (5 - (5 + 5)/5) \times ((5/5 - (5 \times 5 + 5)) + 5^5) \\
&:= 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) \\
&:= 77 + ((7 \times (7 \times 77 + 777)) - 7/7) \\
&:= 8 + (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) \\
&:= 9 + ((9999 - 9 \times 9 \times 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9289 &:= ((11 \times (11 - 1 - 1))^{1+1}) - (1 + 1)^{11-1-1} \\
&:= 2/2 + ((2 + 2 + 2)^2 \times (2^{2 \times (2+2)} + 2)) \\
&:= 3^3 + (((3 \times (3 + 3)) + 3)^3) + 3/3 \\
&:= 4 + ((44 \times (4^4 - (44 + 4/4))) + 4/4) \\
&:= ((5 + 5 + 5) \times (5^5/5 - 5)) - 55/5 \\
&:= 6/6 + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) \\
&:= 77 + (7 \times (7 \times 77 + 777)) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) + 8/8) \\
&:= 99 \times 99 - ((9 + 9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9290 &:= (11 - 1) \times (((11 \times (1 + 1 + 11))^{1+1}) - 1)/(1 + 1) \\
&:= 2 + ((2 + 2 + 2)^2 \times (2^{2 \times (2+2)} + 2)) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) - 3/3 + 3^3 \\
&:= 4 + ((44 \times (4^4 - (44 + 4/4))) + (4 + 4)/4) \\
&:= 5 + ((5 + 5 + 5) \times ((5^5 - 5)/5 - 5)) \\
&:= (6 + 6)/6 + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) \\
&:= 7/7 + ((7 \times (7 \times 77 + 777)) + 77) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) + ((8 + 8)/8)) \\
&:= 9/9 + (99 \times 99 - ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9291 &:= 1111 + (((1 + 1))^{1+1+11}) - (1 + 11) \\
&:= 2 + (((2 + 2 + 2)^2 \times (2^{2 \times (2+2)} + 2)) + 2/2) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) + 3^3 \\
&:= 44/4 + (4 \times (4 \times (4 \times 4^4 - 444))) \\
&:= 5 + (((5 + 5 + 5) \times ((5^5 - 5)/5 - 5)) + 5/5) \\
&:= (6 \times 6/(6 + 6)) + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) \\
&:= ((7 + 7)/7)^7 + (77 \times ((7 \times 7 - 7) + 77)) \\
&:= 88/8 + (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) \\
&:= 9 + (((9/9 + 9 \times 9) + 9) \times (999/9 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9292 &:= 1111 + (((1 + 1))^{1+1+11}) - 11 \\
&:= 2 \times (((2^{2+2+2} + 2) + 2)^2) + 22 \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) + 3/3 + 3^3 \\
&:= (4 \times (4 \times ((4/4 + 4)^4 - 44))) - 4 \\
&:= (5 + 5)/5 \times ((5/5 + 5)^5 - (5^5 + 5)) \\
&:= 6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - ((6 + 6)/6)) \\
&:= (77/7 \times ((77 \times 77 - 7)/7)) - (7 + 7) \\
&:= ((88 + 8)/8) + (8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) \\
&:= ((99/9) + 9 \times 9) \times ((9 + 9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9293 &:= 1 + (1111 + (((1 + 1))^{1+1+11}) - 11) \\
&:= (2 \times 2^{2+2}) + ((22 - 2/2)^{2/2+2}) \\
&:= 33 + (((3 \times (3 + 3)) + 3)^3) - 3/3 \\
&:= 4/4 + ((4 \times (4 \times ((4/4 + 4)^4 - 44))) - 4) \\
&:= ((5 + 5 + 5) \times (5^5/5 - 5)) - ((5 + 5)/5 + 5) \\
&:= 6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6/6) \\
&:= 77 + ((7 \times (7 + 7) - ((7 + 7)/7))^{(7+7)/7}) \\
&:= 88 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - (88/8)) \\
&:= 9/9 + (((99/9) + 9 \times 9) \times ((9 + 9)/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9294 &:= (11 \times (1 + 1 + 1)) + ((11 + (11 - 1))^{1+1+1}) \\
&:= 2 + (2 \times (((2^{2+2+2} + 2) + 2)^2) + 22) \\
&:= 33 + (((3 \times (3 + 3)) + 3)^3) \\
&:= (4 \times (4 \times ((4/4 + 4)^4 - 44))) - (4 + 4)/4 \\
&:= ((5 + 5 + 5) \times (5^5/5 - 5)) - (5/5 + 5) \\
&:= 6 + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) \\
&:= 7 + (((7/7 + 7) \times (7777/7 + 7 \times 7)) + 7) \\
&:= 8 + (((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - ((8 + 8)/8)) + 8) \\
&:= 9 \times 9 + (999/9 \times (((9 + 9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9295 &:= (111 - 1)/(1 + 1) \times (1 + 1 + 11)^{1+1} \\
&:= 22/2 + (22 \times ((22 - 2)^2 + 22)) \\
&:= 3/3 + (((3 \times (3 + 3)) + 3)^3) + 33 \\
&:= (4 \times (4 \times ((4/4 + 4)^4 - 44))) - 4/4 \\
&:= ((5 + 5 + 5) \times (5^5/5 - 5)) - 5 \\
&:= 6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) + 6/6) \\
&:= 77/7 \times ((77 \times 77 - (7 + 7))/7) \\
&:= 8 + (((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) - 8/8) + 8) \\
&:= 9 \times 9 + (((9 + 9) \times ((9 + 9)/9)^9) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9296 &:= (1 + 111) \times (1 + (1 + (11 - 1 - 1))^{1+1}) \\
&:= 2 \times (2 \times (((2 \times (22 + 2))^2) - 2) + 22) \\
&:= (3/3 + 3 + 3) \times ((33/3)^3 - 3) \\
&:= 4 \times (4 \times ((4/4 + 4)^4 - 44)) \\
&:= 5/5 + (((5 + 5 + 5) \times (5^5/5 - 5)) - 5) \\
&:= 6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) + ((6 + 6)/6)) \\
&:= 7 + ((7 \times (7 \times 77 + 777)) + 77) \\
&:= 8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 8)) + 8) \\
&:= 9 \times 9 + (((9 + 9) \times ((9 + 9)/9)^9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9297 &:= 1 + ((1 + 111) \times (1 + (1 + (11 - 1 - 1))^{1+1}))) \\
&:= (2 + 2 + 2)^2 + ((22 - 2/2)^{2/2+2}) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) + 33 \\
&:= 4/4 + (4 \times (4 \times ((4/4 + 4)^4 - 44))) \\
&:= (5 - (5 + 5)/5) \times (5^5 - (5 \times 5 + 5/5)) \\
&:= 6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) + (6 \times 6/(6 + 6))) \\
&:= 7 + (((7 \times (7 \times 77 + 777)) + 77) + 7/7) \\
&:= (8/8 + 8) \times ((8 \times 8 \times (8 + 8) + 8/8) + 8) \\
&:= 9 \times (((9 + 9)/9)^{9/9+9}) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9298 &:= ((111 - (1 + (1 + 1 + 11)))^{1+1}) - 111 \\
&:= 2 + (2 \times (2 \times (((2 \times (22 + 2))^2) - 2) + 22)) \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + 3/3) + 33 \\
&:= (4 + 4)/4 + (4 \times (4 \times ((4/4 + 4)^4 - 44))) \\
&:= ((5 + 5 + 5) \times (5^5/5 - 5)) - (5 + 5)/5 \\
&:= ((66 - 6)/6) + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) \\
&:= ((77 + 7)/7 \times (777 - 7/7)) - (7 + 7) \\
&:= 8 + (((8 \times (8 + 8) \times (8 \times 8 + 8) + 8)) + ((8 + 8)/8) + 8) \\
&:= 9 + (99 \times 99 - (9 + 9)/9^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9299 &:= 1111 + ((1 + 1) \times ((1 + 1) \times ((1 + 1)^{11} - 1))) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + (2 + 2 + 2)^2) \\
&:= 3 + ((3/3 + 3 + 3) \times ((33/3)^3 - 3)) \\
&:= 4 + ((4 \times (4 \times ((4/4 + 4)^4 - 44))) - 4/4) \\
&:= ((5 + 5 + 5) \times (5^5/5 - 5)) - 5/5 \\
&:= 66/6 + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) \\
&:= (77/7 \times ((77 \times 77 - 7)/7)) - 7 \\
&:= 8 + ((8 \times (8 + 8) \times (8 \times 8 + 8) + 8)) + (88/8) \\
&:= 9 + ((99 \times 99 - (9 + 9)/9^9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9300 &:= 1111 + (((1 + 1)^{1+1+11}) - (1 + 1 + 1)) \\
&:= 2 \times (2 \times ((2 \times (22 + 2))^2) + 22) - 2 \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + 33) + 3 \\
&:= 4 + (4 \times (4 \times ((4/4 + 4)^4 - 44))) \\
&:= (5 + 5 + 5) \times (5^5/5 - 5) \\
&:= 6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) + 6) \\
&:= (77 + 7)/7 \times (777 - ((7 + 7)/7)) \\
&:= ((88 + 8)/8) \times ((8 \times (88 + 8) - 8/8) + 8) \\
&:= (9/9 + 99) \times ((99 + 9)/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9301 &:= 1111 + ((1 + 1) \times (((1 + 1)^{1+11}) - 1)) \\
&:= 2 \times (22 - 2) + ((22 - 2/2)^{2/2+2}) \\
&:= 3 + (((3 \times (3 + 3)) + 3^3) + 3/3) + 33 + 3 \\
&:= 4 + ((4 \times (4 \times ((4/4 + 4)^4 - 44))) + 4/4) \\
&:= 5/5 + ((5 + 5 + 5) \times (5^5/5 - 5)) \\
&:= 6 + ((6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) + 6/6) + 6) \\
&:= 7/7 + ((77 + 7)/7 \times (777 - ((7 + 7)/7))) \\
&:= ((88 + 8) \times ((8/8 + 88) + 8)) - 88/8 \\
&:= 9 + (((99/9) + 9 \times 9) \times ((9 + 9)/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9302 &:= 1111 + (((1 + 1)^{1+1+11}) - 1) \\
&:= (222 \times ((2 \times 22) - 2)) - 22 \\
&:= 3 + (((3/3 + 3 + 3) \times ((33/3)^3 - 3)) + 3) \\
&:= (4 \times 4^4 \times (4 + 4)) + (4444 - 4)/4 \\
&:= (5 + 5)/5 \times ((5/5 + 5)^5 - 5^5) \\
&:= 6 + ((6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) + ((6 + 6)/6)) + 6) \\
&:= 7 + (77/7 \times ((77 \times 77 - (7 + 7)/7))) \\
&:= 88 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - ((8 + 8)/8)) \\
&:= 99 \times 99 + ((9 - 9 \times 999)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9303 &:= 1111 + ((1 + 1)^{1+1+11}) \\
&:= (2/2 - 22) \times (2/2 - 2 \times 222) \\
&:= 3 \times 3 + (((3 \times (3 + 3)) + 3^3) + 33) \\
&:= (4 \times 4^4 \times (4 + 4)) + 4444/4 \\
&:= (5 - (5 + 5)/5) \times ((5/5 - 5 \times 5) + 5^5) \\
&:= (6/6 + 6) \times ((66 \times 6/(6 + 6)) + 6 \times 6 \times 6 \times 6) \\
&:= (77 \times (((7 + 7)/7)^7 - 7)) - (7 + 7) \\
&:= 88 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) - 8/8) \\
&:= 9 + ((999/9 \times (((9 + 9)/9) + 9 \times 9)) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9304 &:= 1 + (1111 + ((1 + 1)^{1+1+11})) \\
&:= 2 \times (2 \times (((2 \times (22 + 2))^2) + 22)) \\
&:= 3 \times 3 + (((3 \times (3 + 3)) + 3^3) + 3/3) + 33 \\
&:= 4 + ((4 \times (4 \times ((4/4 + 4)^4 - 44))) + 4) \\
&:= 5 + (((5 + 5 + 5) \times (5^5/5 - 5)) - 5/5) \\
&:= (((6 + 6)/6 + 6 + 6) \times (666 - 6/6)) - 6 \\
&:= 7/7 + ((77 \times (((7 + 7)/7)^7 - 7)) - (7 + 7)) \\
&:= 88 + (8 \times (8 + 8) \times (8 \times 8 + 8)) \\
&:= 99 + (((9 + 9) \times ((9 + 9)/9)^9) - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9305 &:= 1 + (1 + (1111 + ((1 + 1)^{1+1+11}))) \\
&:= 2 \times 22 + ((22 - 2/2)^{2/2+2}) \\
&:= 33 + (((3 \times (3 + 3)) + 3^3) + 33/3) \\
&:= 44 + (((4 \times 4 + 4/4) + 4)^{4-4/4}) \\
&:= 5 + ((5 + 5 + 5) \times (5^5/5 - 5)) \\
&:= 6 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) + (66/6)) \\
&:= ((77 + 7)/7 \times (777 - 7/7)) - 7 \\
&:= 8/8 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) + 88) \\
&:= 9 + (((9 + 9) \times ((9 + 9)/9)^9) - 9/9) + 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9306 &:= (11 - 1 - 1) \times (11 + ((1 + 1)^{11-1} - 1)) \\
&:= 2 + (2 \times (2 \times (((2 \times (22 + 2))^2) + 22))) \\
&:= 33 \times ((3 \times (3 \times (3^3 + 3) + 3)) + 3) \\
&:= 44/4 \times (4 \times (4^4 - 44) - (4 + 4)/4) \\
&:= 5 + (((5 + 5 + 5) \times (5^5/5 - 5)) + 5/5) \\
&:= 66 \times ((666/6 - 6) + 6 \times 6) \\
&:= 77/7 \times ((77 \times 77 - 7)/7) \\
&:= 88 + ((8 \times (8 + 8) \times (8 \times 8 + 8)) + ((8 + 8)/8)) \\
&:= 9 + (((9 + 9) \times ((9 + 9)/9)^9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9307 &:= 1 + ((11 - 1 - 1) \times (11 + ((1 + 1)^{11-1} - 1))) \\
&:= 2 + (((22 - 2/2)^{2/2+2}) + 2 \times 22) \\
&:= 3/3 + (33 \times ((3 \times (3 \times (3^3 + 3) + 3)) + 3)) \\
&:= 4 + ((4 \times 4^4 \times (4 + 4)) + 4444/4) \\
&:= 5 + ((5 + 5)/5 \times ((5/5 + 5)^5 - 5^5)) \\
&:= 6/6 + (66 \times ((666/6 - 6) + 6 \times 6)) \\
&:= 7 + (77/7 \times (777 - ((7 + 7)/7))) \\
&:= ((8/8 + 8) \times (8 \times 8 \times (8 + 8) + (88/8))) - 8 \\
&:= 9 + ((99 \times 99 - ((9 + 9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9308 &:= 1 + (1 + ((11 - 1 - 1) \times (11 + ((1 + 1)^{11-1} - 1)))) \\
&:= 2 \times (2 \times (((2 \times (22 + 2))^2) + 22) + 2) \\
&:= ((3/3 + 3 + 3) \times (33/3)^3) - 3 \times 3 \\
&:= (44 \times (4^4 - 44)) - 4 \times 4 - 4 \\
&:= 5 + ((5 - (5 + 5)/5) \times ((5/5 - 5 \times 5) + 5^5)) \\
&:= (6 + 6)/6 + (66 \times ((666/6 - 6) + 6 \times 6)) \\
&:= (77 \times (((7 + 7)/7)^7 - 7)) - ((7 + 7)/7 + 7) \\
&:= 8 + (((88 + 8)/8) \times ((8 \times (88 + 8) - 8/8) + 8)) \\
&:= 9 \times 9 + (((9 + 9) \times ((9 + 9)/9)^9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9309 &:= (((1 + 1)^{11-1} \times (11 - 1)^{1+1}) - 1)/11 \\
&:= (2 \times (22 + 2)) + ((22 - 2/2)^{2/2+2}) \\
&:= 3 + (33 \times ((3 \times (3 \times (3^3 + 3) + 3)) + 3)) \\
&:= 4 + (((4 \times 4 + 4/4) + 4)^{4-4/4}) + 44 \\
&:= 5 + (((5 + 5 + 5) \times (5^5/5 - 5)) - 5/5) + 5 \\
&:= (666666/66) - 66 \times (6 + 6) \\
&:= (77 \times (((7 + 7)/7)^7 - 7)) - (7/7 + 7) \\
&:= (88 - 8/8) \times ((88/8 + 88) + 8) \\
&:= 9 + ((9/9 + 99) \times ((99 + 9)/9 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9310 &:= (11^{1+1+1} - 1) \times (1 + ((1 + 1) \times (1 + 1 + 1))) \\
&:= 2 + (2 \times (2 \times (((2 \times (22 + 2))^2) + 22) + 2)) \\
&:= (3/3 + 3 + 3) \times ((33/3)^3 - 3/3) \\
&:= (4^4 - 44/4) \times (44 - ((4 + 4)/4 + 4)) \\
&:= 5 + (((5 + 5 + 5) \times (5^5/5 - 5)) + 5) \\
&:= ((6 + 6)/6 + 6 + 6) \times (666 - 6/6) \\
&:= 7 \times ((7 \times ((7 + 7) \times (7 + 7) - 7)) + 7) \\
&:= (88 - 8/8 + 8) \times (((8 + 8)/8 + 88) + 8) \\
&:= ((99 - ((9 + 9)/9))^{(9+9)/9}) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9311 &:= 1 + ((11^{1+1+1} - 1) \times (1 + ((1 + 1) \times (1 + 1 + 1)))) \\
&:= (222 \times ((2 \times 22) - 2)) - (22/2 + 2) \\
&:= ((3/3 + 3 + 3) \times (33/3)^3) - 3 - 3 \\
&:= (44 \times (4^4 - 44)) - (4 \times 4 + 4/4) \\
&:= 55/5 + ((5 + 5 + 5) \times (5^5/5 - 5)) \\
&:= (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - (6/6 + 6 + 6) \\
&:= 7/7 + (7 \times ((7 \times ((7 + 7) \times (7 + 7) - 7)) + 7)) \\
&:= ((88 + 8) \times ((8/8 + 88) + 8)) - 8/8 \\
&:= 9 + (((9 - 9 \times 999)/(9 + 9)) + 99 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9312 &:= (1 + 11) \times ((111 \times (1 + ((1 + 1) \times (1 + 1 + 1)))) - 1) \\
&:= 2 \times (2 \times (((2 \times (22 + 2))^2) + 22) + 2) \\
&:= (3^3 \times ((333 + 3 \times 3) + 3)) - 3 \\
&:= (44 \times (4^4 - 44)) - 4 \times 4 \\
&:= (5 + 5)/5 \times (((5/5 + 5)^5 - 5^5) + 5) \\
&:= (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - 6 - 6 \\
&:= (77 + 7)/7 \times (777 - 7/7) \\
&:= (88 + 8) \times ((8/8 + 88) + 8) \\
&:= 99 + (999/9 \times (((9 + 9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9313 &:= 11 + (1111 + (((1+1)^{1+1+11}) - 1)) \\
&:= (222 \times ((2 \times 22) - 2)) - 22/2 \\
&:= (333 \times (3^3 + 3/3)) - 33/3 \\
&:= 4/4 + ((44 \times (4^4 - 44)) - 4 \times 4) \\
&:= ((5+5+5) \times ((5^5 + 5)/5 - 5)) - (5+5)/5 \\
&:= (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - 66/6 \\
&:= 7 + (77/7 \times ((77 \times 77 - 7)/7)) \\
&:= 8/8 + ((88 + 8) \times ((8/8 + 88) + 8)) \\
&:= 99 + (((9+9) \times ((9+9)/9)^9) - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9314 &:= 11 + (1111 + ((1+1)^{1+1+11})) \\
&:= 2 + (2 \times (2 \times (((2 \times (22 + 2))^2) + 22) + 2)) \\
&:= ((3/3 + 3 + 3) \times (33/3)^3) - 3 \\
&:= (4+4)/4 + ((44 \times (4^4 - 44)) - 4 \times 4) \\
&:= ((5+5+5) \times ((5^5 + 5)/5 - 5)) - 5/5 \\
&:= (6 - 66)/6 + (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) \\
&:= ((7 - 77)/7) + (777 \times (77 + 7)/7) \\
&:= (8 + 8)/8 + ((88 + 8) \times ((8/8 + 88) + 8)) \\
&:= 99 + (((9+9) \times ((9+9)/9)^9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9315 &:= (11 - 1 - 1) \times (11 + (1+1)^{11-1}) \\
&:= 2 + ((222 \times ((2 \times 22) - 2)) - 22/2) \\
&:= 3^3 \times ((333 + 3 \times 3) + 3) \\
&:= (44/4 + 4) \times ((4/4 + 4)^4 - 4) \\
&:= (5+5+5) \times ((5^5 + 5)/5 - 5) \\
&:= 6 \times 6 \times 6 \times 6 + ((66/6) \times ((6 \times 6/(6+6))^6)) \\
&:= (77 - (7/7 + 7)) \times (((7+7)/7)^7 + 7) \\
&:= (8/8 + 8) \times (8 \times 8 \times (8 + 8) + (88/8)) \\
&:= 9 \times (((999 + 9 + 9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9316 &:= 1 + ((11 - 1 - 1) \times (11 + (1+1)^{11-1})) \\
&:= 2 \times ((222 \times (22 - 2/2)) - (2 + 2)) \\
&:= 3/3 + (3^3 \times ((333 + 3 \times 3) + 3)) \\
&:= 4 + ((44 \times (4^4 - 44)) - 4 \times 4) \\
&:= 5/5 + ((5+5+5) \times ((5^5 + 5)/5 - 5)) \\
&:= 6 + (((6+6)/6 + 6 + 6) \times (666 - 6/6)) \\
&:= (77 \times (((7+7)/7)^7 - 7)) - 7/7 \\
&:= (888/8 \times (88 - 8 \times 8/(8+8))) - 8 \\
&:= 9/9 + (((9+9) \times ((9+9)/9)^9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9317 &:= 11^{1+1+1} \times (1 + ((1+1) \times (1+1+1))) \\
&:= (((22/2)^2 - 22)^2) - 22^2 \\
&:= (3/3 + 3 + 3) \times (33/3)^3 \\
&:= (44 \times (4^4 - 44)) - 44/4 \\
&:= ((5 - (5+5)/5) \times (5^5 - 5/5)) - 55 \\
&:= (6/6 + 6) \times ((66/6)^{6 \times 6/(6+6)}) \\
&:= 77 \times (((7+7)/7)^7 - 7) \\
&:= (8 - 8/8) \times ((88/8)^{88/8-8}) \\
&:= 99 + (((9+9) \times ((9+9)/9)^9) + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9318 &:= 1 + (11^{1+1+1} \times (1 + ((1+1) \times (1+1+1)))) \\
&:= (222 \times ((2 \times 22) - 2)) - 2 - 2 - 2 \\
&:= 3 + (3^3 \times ((333 + 3 \times 3) + 3)) \\
&:= (4 - 44)/4 + (44 \times (4^4 - 44)) \\
&:= 5^5 + ((5^5 - ((5+5)/5 + 55)) + 5^5) \\
&:= (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - 6 \\
&:= 7/7 + (77 \times (((7+7)/7)^7 - 7)) \\
&:= 8 + ((88 - 8/8 + 8) \times (((8+8)/8 + 88) + 8)) \\
&:= 999/9 + (((9+9) \times ((9+9)/9)^9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9319 &:= 1 + (1 + (11^{1+1+1} \times (1 + ((1+1) \times (1+1+1)))) \\
&:= 2 + (((22/2)^2 - 22)^2) - 22^2 \\
&:= 3 + (3^3 \times ((333 + 3 \times 3) + 3)) + 3/3 \\
&:= 4 + ((44/4 + 4) \times ((4/4 + 4)^4 - 4)) \\
&:= 5^5 + ((5^5 - (55 + 5/5)) + 5^5) \\
&:= 6/6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - 6) \\
&:= 7 + ((77 + 7)/7 \times (777 - 7/7)) \\
&:= 8 + (((88 + 8) \times ((8/8 + 88) + 8)) - 8/8) \\
&:= 9 + (((99 - ((9+9)/9))^{(9+9)/9}) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9320 &:= (1+1) \times ((1+1) \times ((111 \times (11 + (11 - 1)))) - 1) \\
&:= 2 \times ((222 \times (22 - 2/2)) - 2) \\
&:= 3 + ((3/3 + 3 + 3) \times (33/3)^3) \\
&:= (44 \times (4^4 - 44)) - 4 - 4 \\
&:= 5^5 + ((5^5 - 55) + 5^5) \\
&:= (6 + 6)/6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - 6) \\
&:= 7 + ((77/7 \times ((77 \times 77 - 7)/7)) + 7) \\
&:= 8 + ((88 + 8) \times ((8/8 + 88) + 8)) \\
&:= (99999/9) - ((9+9) \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9321 &:= (1+1+11) \times ((1+1)^{11} - 11^{1+1+1}) \\
&:= (222 \times ((2 \times 22) - 2)) - 2/2 - 2 \\
&:= (333 \times (3^3 + 3/3)) - 3 \\
&:= 4 + ((44 \times (4^4 - 44)) - 44/4) \\
&:= 5^5 + ((5^5 - 55) + 5/5) + 5^5 \\
&:= (6/6 + 6 + 6) \times (((6 \times 6/(6+6))^6) - (6+6)) \\
&:= (77/7 \times ((77 \times 77 + 7)/7)) - 7 \\
&:= (((8/8 + 88) + 8)^{(8+8)/8}) - 88 \\
&:= 9 + ((999/9 \times (((9+9)/9) + 9 \times 9)) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9322 &:= (1+1) \times (((1+1) \times (111 \times (11 + (11 - 1)))) - 1) \\
&:= (222 \times ((2 \times 22) - 2)) - 2 \\
&:= 3/3 + ((333 \times (3^3 + 3/3)) - 3) \\
&:= (44 \times (4^4 - 44)) - ((4+4)/4 + 4) \\
&:= 5 + (((5 - (5+5)/5) \times (5^5 - 5/5)) - 55) \\
&:= (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - (6+6)/6 \\
&:= ((7+7)/7 + 77) \times (777/7 + 7) \\
&:= ((8/8 - 88) + 8) \times (((8 - 888)/8) - 8) \\
&:= (9 \times 9 - ((9+9)/9)) \times ((9/9 + 99 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9323 &:= ((1+1) \times ((1+1) \times (111 \times (11 + (11 - 1)))) - 1) \\
&:= (222 \times ((2 \times 22) - 2)) - 2/2 \\
&:= (333 \times (3^3 + 3/3)) - 3/3 \\
&:= (44 \times (4^4 - 44)) - 4/4 - 4 \\
&:= ((5 - (5+5)/5) \times (5^5 + 5/5)) - 55 \\
&:= (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - 6/6 \\
&:= (777 \times (77 + 7)/7) - 7/7 \\
&:= 8 + ((8/8 + 8) \times (8 \times 8 \times (8 + 8) + (88/8))) \\
&:= 9 + (((9+9) \times ((9+9)/9)^9) - 9/9) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9324 &:= (1+1) \times ((1+1) \times (111 \times (11 + (11 - 1)))) \\
&:= 222 \times ((2 \times 22) - 2) \\
&:= 333 \times (3^3 + 3/3) \\
&:= (44 \times (4^4 - 44)) - 4 \\
&:= 5^5 + (((5+5) \times (5^5/5 - 5)) - 5/5) \\
&:= (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) \\
&:= 777 \times (77 + 7)/7 \\
&:= 888/8 \times (88 - 8 \times 8/(8+8)) \\
&:= 9 + (((9+9) \times ((9+9)/9)^9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9325 &:= 1 + ((1+1) \times ((1+1) \times (111 \times (11 + (11 - 1)))) \\
&:= 2/2 + (222 \times ((2 \times 22) - 2)) \\
&:= 3/3 + (333 \times (3^3 + 3/3)) \\
&:= 4/4 + ((44 \times (4^4 - 44)) - 4) \\
&:= 5^5 + ((5+5) \times (5^5/5 - 5)) \\
&:= 6/6 + (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) \\
&:= 7/7 + (777 \times (77 + 7)/7) \\
&:= 8 + ((8 - 8/8) \times ((88/8)^{88/8-8})) \\
&:= 9 + (((9+9) \times ((9+9)/9)^9) + 9/9) + 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9326 &:= 11 + ((11 - 1 - 1) \times (11 + (1+1)^{11-1})) \\
&:= 2 + (222 \times ((2 \times 22) - 2)) \\
&:= 3 + ((333 \times (3^3 + 3/3)) - 3/3) \\
&:= (44 \times (4^4 - 44)) - (4+4)/4 \\
&:= 5^5 + (((5+5) \times (5^5/5 - 5)) + 5/5) \\
&:= (6+6)/6 + (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) \\
&:= (7+7)/7 + (777 \times (77 + 7)/7) \\
&:= (888 - 8)/8 + (8 \times (8+8) \times (8 \times 8 + 8)) \\
&:= 99 + (((9+9) \times ((9+9)/9)^9) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9327 &:= 111 + ((11 - 1 - 1) \times (1+1)^{11-1}) \\
&:= 2 + ((222 \times ((2 \times 22) - 2)) + 2/2) \\
&:= 3 + (333 \times (3^3 + 3/3)) \\
&:= (44 \times (4^4 - 44)) - 4/4 \\
&:= (5 - (5+5)/5) \times (5^5 - (55/5 + 5)) \\
&:= (6 \times 6/(6+6)) + (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) \\
&:= ((77 - 7)/7) + (77 \times (((7+7)/7)^7 - 7)) \\
&:= 888/8 + (8 \times (8+8) \times (8 \times 8 + 8)) \\
&:= 999/9 + ((9+9) \times ((9+9)/9)^9)
\end{aligned}$$

- 9328 := $1 + (111 + ((11 - 1 - 1) \times (1 + 1)^{11-1}))$
:= $2 + ((222 \times ((2 \times 22) - 2)) + 2)$
:= $3 + ((333 \times (3^3 + 3/3)) + 3/3)$
:= $44 \times (4^4 - 44)$
:= $5 + (((5 - (5 + 5)/5) \times (5^5 + 5/5)) - 55)$
:= $6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - ((6 + 6)/6))$
:= $77/7 \times ((77 \times 77 + 7)/7)$
:= $88 \times (((8 + 8)/8 + 88) + 8) + 8$
:= $((99 - ((9 + 9)/9))^{(9+9)/9}) - 9 \times 9$
- 9329 := $1 + (1 + (111 + ((11 - 1 - 1) \times (1 + 1)^{11-1})))$
:= $2 + (((222 \times ((2 \times 22) - 2)) + 2/2) + 2)$
:= $3 + (((333 \times (3^3 + 3/3)) - 3/3) + 3)$
:= $4/4 + (44 \times (4^4 - 44))$
:= $5 + (((5 + 5) \times (5^5/5 - 5)) - 5/5) + 5^5$
:= $6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - 6/6)$
:= $((77 + 7)/7 \times (777 + 7/7)) - 7$
:= $8 + (((8/8 + 88) + 8)^{(8+8)/8}) - 88$
:= $(99999/9) - (9 + 9) \times 99$
- 9330 := $(1 + 1) \times (1 + ((1 + 1) \times (1 + (111 \times (11 + (11 - 1))))))$
:= $2 + (((222 \times ((2 \times 22) - 2)) + 2) + 2)$
:= $3 + ((333 \times (3^3 + 3/3)) + 3)$
:= $(4 + 4)/4 + (44 \times (4^4 - 44))$
:= $5 + (((5 + 5) \times (5^5/5 - 5)) + 5^5)$
:= $6 + (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6)$
:= $7 + (777 \times (77 + 7)/7) - 7/7$
:= $8 + (((8/8 - 88) + 8) \times (((8 - 888)/8) - 8))$
:= $9/9 + ((99999/9) - (9 + 9) \times 99)$
- 9331 := $11^{1+1+1} + (((1 + 1) \times (11 - 1))^{1+1+1})$
:= $(2 \times ((2 \times 2222) + 222)) - 2/2$
:= $(33/3)^3 + ((33/3 + 3 \times 3)^3)$
:= $4 + ((44 \times (4^4 - 44)) - 4/4)$
:= $5 + (((5 + 5) \times (5^5/5 - 5)) + 5^5) + 5/5$
:= $6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + 6/6)$
:= $7 + (777 \times (77 + 7)/7)$
:= $8 + (((8/8 + 8) \times (8 \times 8 \times (8 + 8) + (88/8))) + 8)$
:= $9 + ((9 \times 9 - ((9 + 9)/9)) \times ((9/9 + 99 + 9) + 9))$
- 9332 := $(1 + 1) \times ((1 + 1) \times (111 + ((1 + 1) \times 1111)))$
:= $2 \times ((2 \times 2222) + 222)$
:= $((3 \times (3 + 3) + 3)^3) + (((3 + 3)^3 - 3)/3)$
:= $4 + (44 \times (4^4 - 44))$
:= $5 + ((5 - (5 + 5)/5) \times (5^5 - (55/5 + 5)))$
:= $6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + ((6 + 6)/6))$
:= $7 + (777 \times (77 + 7)/7) + 7/7$
:= $8888 + 888/((8 + 8)/8)$
:= $99 + ((9 \times ((999 + 9 + 9) + 9)) - 9/9)$
- 9333 := $(11 - 1 - 1) \times (1 + (1 + 11 + (1 + 1)^{11-1}))$
:= $2/2 + (2 \times ((2 \times 2222) + 222))$
:= $3 \times 3 + (333 \times (3^3 + 3/3))$
:= $4 + ((44 \times (4^4 - 44)) + 4/4)$
:= $(5 - (5 + 5)/5) \times ((5/5 - (5 + 5 + 5)) + 5^5)$
:= $6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + (6 \times 6/(6 + 6)))$
:= $7 + ((777 \times (77 + 7)/7) + ((7 + 7)/7))$
:= $((8 + 8) \times (8 \times (8 \times 8 + 8) + 8)) - 88/8$
:= $99 + (9 \times ((999 + 9 + 9) + 9))$
- 9334 := $(1 + 1 + 11) \times ((11 - 1 - 1)^{1+1+1} - 11)$
:= $2 + (2 \times ((2 \times 2222) + 222))$
:= $((3/3 + 3 + 3)^3) + (3^3 \times 333)$
:= $4 + ((44 \times (4^4 - 44)) + (4 + 4)/4)$
:= $5^5 + (((5 + 5) \times ((5^5 + 5)/5 - 5)) - 5/5)$
:= $((66 - 6)/6) + (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6)$
:= $((77 - 7)/7) + (777 \times (77 + 7)/7)$
:= $888 + (88 \times (88 + 8) - ((8 + 8)/8))$
:= $9/9 + ((9 \times ((999 + 9 + 9) + 9)) + 99)$
- 9335 := $(11 \times 11 \times 111) - ((1 + 1)^{1+1+1})$
:= $22/2 + (222 \times ((2 \times 22) - 2))$
:= $33/3 + (333 \times (3^3 + 3/3))$
:= $4 + (((44 \times (4^4 - 44)) - 4/4) + 4)$
:= $5^5 + ((5 + 5) \times ((5^5 + 5)/5 - 5))$
:= $66/6 + (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6)$
:= $7 + (77/7 \times ((77 \times 77 + 7)/7))$
:= $888 + (88 \times (88 + 8) - 8/8)$
:= $9 + (((9 + 9) \times ((9 + 9)/9)^9) + (99/9)) + 99$
- 9336 := $1 + ((11 \times 11 \times 111) - ((1 + 1)^{1+1+1}))$
:= $2 \times (((2 \times 2222) + 222) + 2)$
:= $3 + ((333 \times (3^3 + 3/3)) + 3 \times 3)$
:= $4 + ((44 \times (4^4 - 44)) + 4)$
:= $(5/5 + 5)^5 + (5 \times (5^5 - 5)/(5 + 5))$
:= $6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + 6)$
:= $(77 + 7)/7 \times (777 + 7/7)$
:= $888 + 88 \times (88 + 8)$
:= $9 + (((9 + 9) \times ((9 + 9)/9)^9) + 999/9)$
- 9337 := $11^{1+1} + ((11 - 1 - 1) \times (1 + 1)^{11-1})$
:= $(22/2)^2 + (2 \times 2 \times (22 + 2))^2$
:= $3 + (((3/3 + 3 + 3)^3) + (3^3 \times 333))$
:= $4 + (((44 \times (4^4 - 44)) + 4/4) + 4)$
:= $((5 - (5 + 5)/5) \times (5^5 - (55/5))) - 5$
:= $6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + 6/6) + 6)$
:= $7 + (((777 \times (77 + 7)/7) - 7/7) + 7)$
:= $8/8 + (88 \times (88 + 8) + 888)$
:= $9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) - 9 \times 9)$
- 9338 := $((11 \times (1 + 1 + 11))^{1+1}) - 11111$
:= $2 + (2 \times (((2 \times 2222) + 222) + 2))$
:= $(3/3 + 3 + 3) \times ((33/3)^3 + 3)$
:= $(44 - 4)/4 + (44 \times (4^4 - 44))$
:= $5^5 + ((5^5 - (((5 + 5)/5)^5 + 5)) + 5^5)$
:= $((6 + 6)/6 + 6 + 6) \times (666 + 6/6)$
:= $7 + ((777 \times (77 + 7)/7) + 7)$
:= $888 + (88 \times (88 + 8) + ((8 + 8)/8))$
:= $9 + ((99999/9) - (9 + 9) \times 99)$
- 9339 := $11 \times ((1 + 1)^{11} - (11 \times (111 - 1 - 1)))$
:= $2 + ((2 \times 2 \times (22 + 2))^2 + (22/2)^2)$
:= $3 \times 3^3 + (((3 \times (3 + 3) + 3)^3) - 3)$
:= $44/4 + (44 \times (4^4 - 44))$
:= $(5 - (5 + 5)/5) \times (5^5 - ((55 + 5)/5))$
:= $6/6 + (((6 + 6)/6 + 6 + 6) \times (666 + 6/6))$
:= $77/7 \times (((77 \times 77 + 7) + 7)/7)$
:= $888 + ((88 \times (88 + 8) - 8) + (88/8))$
:= $99/9 \times ((999/9 + 9 \times 9 \times 9) + 9)$
- 9340 := $1 + (11 \times ((1 + 1)^{11} - (11 \times (111 - 1 - 1))))$
:= $2 \times (2 \times (2222 + 2) + 222)$
:= $3/3 + (((3 \times (3 + 3) + 3)^3) - 3) + 3 \times 3^3$
:= $4 + (((44 \times (4^4 - 44)) + 4) + 4)$
:= $((5 + 5 + 5) \times (5^5 - 5 - 5)/5) - 5$
:= $6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + ((66 - 6)/6))$
:= $((7 + 7)/7)^7 + (7 \times (7 \times 77 + 777))$
:= $8 + (888/((8 + 8)/8) + 8888)$
:= $(9 \times (9 - 9 \times 9)) + (9999 - (99/9))$
- 9341 := $1 + (1 + (11 \times ((1 + 1)^{11} - (11 \times (111 - 1 - 1))))$
:= $2 + (((2 \times 2 \times (22 + 2))^2 + (22/2)^2) + 2)$
:= $3 + ((3/3 + 3 + 3) \times ((33/3)^3 + 3))$
:= $4 + (((44 \times (4^4 - 44)) + 4/4) + 4) + 4$
:= $5^5 + ((55 + 5/5) \times 555/5)$
:= $6 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + (66/6))$
:= $((77 + 7)/7 \times (((7 + 7)/7) + 777)) - 7$
:= $8 + (((8 + 8) \times (8 \times (8 \times 8 + 8) + 8)) - (88/8))$
:= $((9 + 9)/9)^9 + (9 \times (9 \times (99 + 9) + 9))$
- 9342 := $(11 - 1 - 1) \times (1 + (1 + (1 + 11 + (1 + 1)^{11-1})))$
:= $2 + ((222 \times ((2 \times 22) - 2)) + 2^{2+2})$
:= $3^3 \times (((3/3 + 3 + 3)^3) + 3)$
:= $4 + ((44 \times (4^4 - 44)) + (44 - 4)/4)$
:= $(5 - (5 + 5)/5) \times (5^5 - (55/5))$
:= $6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + 6) + 6)$
:= $7 + ((77/7 \times ((77 \times 77 + 7)/7)) + 7)$
:= $((8 + 8) \times (8 \times (8 \times 8 + 8) + 8)) - (8 + 8)/8$
:= $(9 \times (9 - 9 \times 9)) + (9999 - 9)$

- 9343 := $((((1+11)^{1+1+1+1}) - (1+1)^{11}) / (1+1)) - 1$
:= $(22 - 2/2) \times (2 \times 222 + 2/2) - 2$
:= $3/3 + (((3 \times (3+3)) + 3)^3) + 3 \times 3^3$
:= $4 + ((44 \times (4^4 - 44)) + 44/4)$
:= $5^5 + ((5^5 - ((5+5)/5)^5) + 5^5)$
:= $6 + (((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + 6/6) + 6) + 6$
:= $7 + ((77 + 7)/7 \times (777 + 7/7))$
:= $((8+8) \times (8 \times (8 \times 8 + 8) + 8)) - 8/8$
:= $9/9 + (((9 \times (9 - 9 \times 9)) - 9) + 9999)$
- 9344 := $((((1+11)^{1+1+1+1}) - (1+1)^{11}) / (1+1))$
:= $2 \times (2^{2 \times (2+2+2)} + ((22 + 2)^2))$
:= $3^3 + ((3/3 + 3 + 3) \times (33/3)^3)$
:= $4 \times ((4+4) \times (4^4 + 4) + 4^4)$
:= $((5+5+5) \times (5^5 - 5 - 5)/5) - 5/5$
:= $6 + (((6+6)/6 + 6 + 6) \times (666 + 6/6))$
:= $((7+7)/7)^7 \times ((77 - 77/7) + 7)$
:= $(8+8) \times (8 \times (8 \times 8 + 8) + 8)$
:= $99 + ((9 \times ((999 + 9 + 9) + 9)) + (99/9))$
- 9345 := $(11 + (11 - 1)) \times (1 + ((1+1) \times (1+1) \times 111))$
:= $(22 - 2/2) \times (2 \times 222 + 2/2)$
:= $3 + (((3 \times (3+3)) + 3)^3) + 3 \times 3^3$
:= $4 \times 4 + ((44 \times (4^4 - 44)) + 4/4)$
:= $(5+5+5) \times (5^5 - 5 - 5)/5$
:= $(6 - 6/6) \times (66 \times (6 \times 6 - 6) - 666/6)$
:= $7 + (((777 \times (77 + 7)/7) + 7) + 7)$
:= $8/8 + ((8+8) \times (8 \times (8 \times 8 + 8) + 8))$
:= $999/9 + (9 \times ((999 + 9 + 9) + 9))$
- 9346 := $(11 \times (1 + 11 \times 111)) - ((1+1)^{1+11})$
:= $22 + (222 \times ((2 \times 22) - 2))$
:= $3 + (((3 \times (3+3)) + 3)^3) + 3 \times 3^3 + 3/3$
:= $4 \times 4 + ((44 \times (4^4 - 44)) + (4+4)/4)$
:= $5/5 + ((5+5+5) \times (5^5 - 5 - 5)/5)$
:= $6 \times 6 + (((6+6)/6 + 6 + 6) \times (666 - 6/6))$
:= $7 + (77/7 \times (((77 \times 77 + 7) + 7)/7))$
:= $(8+8)/8 + ((8+8) \times (8 \times (8 \times 8 + 8) + 8))$
:= $9 + (((99 - ((9+9)/9))^{(9+9)/9}) - 9 \times 9) + 9$
- 9347 := $1 + ((11 \times (1 + 11 \times 111)) - ((1+1)^{1+11}))$
:= $2 + ((22 - 2/2) \times (2 \times 222 + 2/2))$
:= $3 + (((3/3 + 3 + 3) \times (33/3)^3) + 3^3)$
:= $(4 \times (((4 - 4/4) + 4)^4)) - (4/4 + 4^4)$
:= $5 + ((5 - (5+5)/5) \times (5^5 - (55/5)))$
:= $(6/6 + 6 + 6) \times ((6+6) \times (66 - 6) - 6/6)$
:= $7 + ((7 \times (7 \times 77 + 777)) + ((7+7)/7)^7)$
:= $888 + (88 \times (88 + 8) + (88/8))$
:= $((99 + 9 + 9)/9) \times (9 \times 9 \times 9 - (9/9 + 9))$
- 9348 := $(1 + 1 + 1 + 111) \times (1 + (11 - 1 - 1)^{1+1})$
:= $2 + ((222 \times ((2 \times 22) - 2)) + 22)$
:= $(3 \times (3333 - (3+3)^3)) - 3$
:= $(4 \times (((4 - 4/4) + 4)^4)) - 4^4$
:= $(5 - (5+5)/5) \times ((5/5 - 5 - 5) + 5^5)$
:= $66 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6)$
:= $(77 + 7)/7 \times (((7+7)/7) + 777)$
:= $8 \times 8 / (8+8) + ((8+8) \times (8 \times (8 \times 8 + 8) + 8))$
:= $(9/9 + 9 \times 9) \times (((999 + 9 + 9) + 9)/9)$
- 9349 := $1 + ((1 + 1 + 1 + 111) \times (1 + (11 - 1 - 1)^{1+1}))$
:= $2 \times 2 \times 22 + ((22 - 2/2)^{2/2+2})$
:= $((3^3 + 3/3) \times (333 + 3/3)) - 3$
:= $4/4 + ((4 \times (((4 - 4/4) + 4)^4)) - 4^4)$
:= $5^5 + ((5^5 - (5 \times 5 + 5/5)) + 5^5)$
:= $((6+6) \times ((6+6) \times (66 - 6/6))) - 66/6$
:= $7 + (((77/7 \times ((77 \times 77 + 7)/7)) + 7) + 7)$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) - (88/8) + 8)$
:= $(9 \times (9 - 9 \times 9)) + (9999 - ((9+9)/9))$
- 9350 := $11 \times (11^{1+1} + (11 - 1 - 1)^{1+1+1})$
:= $22 \times (((22 - 2/2)^2) - 2^{2+2})$
:= $33 + ((3/3 + 3 + 3) \times (33/3)^3)$
:= $((4 - 4/4)^4 + 4) \times (444 - 4)/4$
:= $5 \times ((5 \times (5 \times (5 \times (5 + 5 + 5)))) - 5)$
:= $6 + (((6+6)/6 + 6 + 6) \times (666 + 6/6)) + 6$
:= $(7/7 + 77 + 7) \times (777 - 7)/7$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) - ((8+8)/8))$
:= $(9 \times (9 - 9 \times 9)) + (9999 - 9/9)$
- 9351 := $1 + (11 \times (11^{1+1} + (11 - 1 - 1)^{1+1+1}))$
:= $2 + (((22 - 2/2)^{2/2+2}) + 2 \times 2 \times 22)$
:= $3 \times (3333 - (3+3)^3)$
:= $(4/4 + 4 + 4) \times (4 \times (4^4 + 4) - 4/4)$
:= $5^5 + (((5/5 - 5 \times 5) + 5^5) + 5^5)$
:= $((6 \times 6 / (6+6)) \times (((6 - 6/6)^{6-6/6}) - 6)) - 6$
:= $7 + (((7+7)/7)^7 \times ((77 - 77/7) + 7))$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) - 8/8)$
:= $(9 \times (9 - 9 \times 9)) + 9999$
- 9352 := $(1 + 1) \times (1 + 1 + 1 + 11) \times (1 + (1 + 1 + 1) \times 111)$
:= $2 \times (2 \times ((2 \times 22 + 2)^2 + 222))$
:= $(3^3 + 3/3) \times (333 + 3/3)$
:= $4 + ((4 \times (((4 - 4/4) + 4)^4)) - 4^4)$
:= $((5 - (5+5)/5) \times (5^5 - (5/5 + 5))) - 5$
:= $((6+6)/6)^6 + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6)$
:= $(7/7 + 7) \times ((7+7) \times (77 + 7) - 7)$
:= $8 + ((8+8) \times (8 \times (8 \times 8 + 8) + 8))$
:= $9/9 + ((9 \times (9 - 9 \times 9)) + 9999)$
- 9353 := $1 + ((1+1) \times (1+1+1+11) \times (1 + (1+1+1) \times 111))$
:= $2/2 + (2 \times (2 \times ((2 \times 22 + 2)^2 + 222)))$
:= $3 + (((3/3 + 3 + 3) \times (33/3)^3) + 33)$
:= $4 + (((4 \times (((4 - 4/4) + 4)^4)) - 4^4) + 4/4)$
:= $5^5 + ((5+5)/5 \times (5^5 - (55/5)))$
:= $66 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) - 6/6)$
:= $7/7 + ((7/7 + 7) \times ((7+7) \times (77 + 7) - 7))$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) + 8/8)$
:= $(9+9)/9 + ((9 \times (9 - 9 \times 9)) + 9999)$
- 9354 := $(1 + 1) \times (1 + (1 + 1 + 1 + 11) \times (1 + (1 + 1 + 1) \times 111))$
:= $2 + (2 \times (2 \times ((2 \times 22 + 2)^2 + 222)))$
:= $3 + (3 \times (3333 - (3+3)^3))$
:= $4 + (((4 - 4/4)^4 + 4) \times (444 - 4)/4)$
:= $(5 - (5+5)/5) \times (5^5 - ((5+5)/5 + 5))$
:= $66 + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6)$
:= $7 \times 7 + (((77 + 7)/7 \times (777 - 7/7)) - 7)$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) + ((8+8)/8))$
:= $9 \times 999 + (99 \times 99 / (9 + 9 + 9))$
- 9355 := $11 + (((1+11)^{1+1+1+1}) - (1+1)^{11}) / (1+1)$
:= $(2/2 + 2 + 2) \times (((2 \times 22) - 2/2)^2 + 22)$
:= $3 + ((3^3 + 3/3) \times (333 + 3/3))$
:= $((4^4 + 4) \times (4 \times (4 + 4) + 4)) - 4/4 - 4$
:= $((5+5+5) \times (5^5 - 5)/5) - 5$
:= $66 + (6 \times 6 \times (6 \times (6 \times 6 + 6) + 6) + 6/6)$
:= $7 + ((77 + 7)/7 \times (((7+7)/7) + 777))$
:= $88/8 + ((8+8) \times (8 \times (8 \times 8 + 8) + 8))$
:= $9 \times 99 + (((99/9) + 9 \times 9)^{(9+9)/9})$
- 9356 := $((111 - 1)^{1+1}) - (1 + 1 + 1 + 11)^{1+1+1}$
:= $2 \times ((2 \times ((2 \times 22 + 2)^2 + 222)) + 2)$
:= $33 + ((333 \times (3^3 + 3/3)) - 3/3)$
:= $((4^4 + 4) \times (4 \times (4 + 4) + 4)) - 4$
:= $5/5 + (((5+5+5) \times (5^5 - 5)/5) - 5)$
:= $(6 - ((6+6)/6)) \times (6 \times (6 \times 66 - 6) - 6/6)$
:= $(77/7 \times (((77 \times 77 + 7)/7) + 7)) - 7 \times 7$
:= $((88 + 8)/8) + ((8+8) \times (8 \times (8 \times 8 + 8) + 8))$
:= $99 \times 99 + ((9 - 9 \times 9 \times 99) / (9 + 9))$
- 9357 := $(11 \times (1 + (1 + 11 \times 111))) - ((1+1)^{1+11})$
:= $((22/2)^2 - 22)^2 - 2 \times 222$
:= $33 + (333 \times (3^3 + 3/3))$
:= $4/4 + (((4^4 + 4) \times (4 \times (4 + 4) + 4)) - 4)$
:= $(5 - (5+5)/5) \times (5^5 - (5/5 + 5))$
:= $(6 \times 6 / (6+6)) \times (((6 - 6/6)^{6-6/6}) - 6)$
:= $7 + ((7/7 + 77 + 7) \times (777 - 7)/7)$
:= $88 + ((8 \times ((8+8) \times (8 \times 8 + 8) + 8)) - (88/8))$
:= $(9 \times (9 \times (99 + 9 + 9))) - (999/9 + 9)$

- 9358 := $((11-1) \times (1+1)^{11}) - (11+11111)$
:= $((2-22) \times (2^{2+2} - 22^2)) - 2$
:= $3 + (((3^3 + 3/3) \times (333 + 3/3)) + 3)$
:= $((4^4 + 4) \times (4 \times (4+4) + 4)) - (4+4)/4$
:= $((5+5+5) \times (5^5 - 5)/5) - (5+5)/5$
:= $((6+6)/6) \times (((6+6) \times (6 \times 66 - 6)) - 6/6)$
:= $77 \times 77 + (7 \times 7 \times (77 - 7) - 7/7)$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) - ((8+8)/8) + 8)$
:= $((9+9) \times (((9+9)/9)^9 + 9)) - (99/9 + 9)$
- 9359 := $((11-1) \times ((1+1)^{11} - 1)) - 11111$
:= $((2-22) \times (2^{2+2} - 22^2)) - 2/2$
:= $3 \times 33 + (((3 \times (3+3)) + 3)^3) - 3/3$
:= $((4^4 + 4) \times (4 \times (4+4) + 4)) - 4/4$
:= $((5+5+5) \times (5^5 - 5)/5) - 5/5$
:= $((6+6) \times ((6+6) \times (66 - 6/6))) - 6/6$
:= $7 \times (((7 \times (7+7) \times (7+7) - 7)) + 7) + 7$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) - 8/8) + 8$
:= $((99+9+9) \times (9 \times 9 - 9/9)) - 9/9$
- 9360 := $(11-1) \times ((1+1)^{11} - (1+1111))$
:= $(2-22) \times (2^{2+2} - 22^2)$
:= $3 \times 33 + (((3 \times (3+3)) + 3)^3)$
:= $(4^4 + 4) \times (4 \times (4+4) + 4)$
:= $(5+5+5) \times (5^5 - 5)/5$
:= $(6+6) \times ((6+6) \times (66 - 6/6))$
:= $(7 \times 7 - 7/7) \times ((7+7) \times (7+7) - 7/7)$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) + 8)$
:= $(99+9+9) \times (9 \times 9 - 9/9)$
- 9361 := $1 + ((11-1) \times ((1+1)^{11} - (1+1111)))$
:= $2/2 + ((2-22) \times (2^{2+2} - 22^2))$
:= $3/3 + (((3 \times (3+3)) + 3)^3) + 3 \times 33$
:= $4/4 + ((4^4 + 4) \times (4 \times (4+4) + 4))$
:= $5/5 + ((5+5+5) \times (5^5 - 5)/5)$
:= $6/6 + ((6+6) \times ((6+6) \times (66 - 6/6)))$
:= $7 \times 7 + ((77+7)/7 \times (777 - 7/7))$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) + 8/8) + 8$
:= $9/9 + ((99+9+9) \times (9 \times 9 - 9/9))$
- 9362 := $1 + (1 + ((11-1) \times ((1+1)^{11} - (1+1111))))$
:= $2 + ((2-22) \times (2^{2+2} - 22^2))$
:= $3 + (((3 \times (3+3)) + 3)^3) - 3/3 + 3 \times 33$
:= $(4+4)/4 + ((4^4 + 4) \times (4 \times (4+4) + 4))$
:= $5 + ((5 - (5+5)/5) \times (5^5 - (5/5 + 5)))$
:= $(6+6)/6 + ((6+6) \times ((6+6) \times (66 - 6/6)))$
:= $7 + (((77+7)/7 \times ((7+7)/7 + 777)) + 7)$
:= $(8 \times 8 - ((8+8)/8)) \times ((88 - 8/8) + 8 \times 8)$
:= $(9+9)/9 + ((99+9+9) \times (9 \times 9 - 9/9))$
- 9363 := $(1+1)^{11} + (11 \times ((11^{1+1+1} - 1)/(1+1)))$
:= $2 + (((2-22) \times (2^{2+2} - 22^2)) + 2/2)$
:= $3 + (((3 \times (3+3)) + 3)^3) + 3 \times 33$
:= $4 + (((4^4 + 4) \times (4 \times (4+4) + 4)) - 4/4)$
:= $(5 - (5+5)/5) \times ((5/5 - 5) + 5^5)$
:= $6 + ((6 \times 6/(6+6)) \times (((6-6/6)^{6-6/6}) - 6))$
:= $77/7 + ((7/7 + 7) \times ((7+7) \times (77+7) - 7))$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) + (88/8))$
:= $9 + ((99 \times 99/(9+9+9)) + 9 \times 999)$
- 9364 := $(1+1) \times (((11 + (11-1)) \times (1 + (1+1) \times 111)) - 1)$
:= $22^2 + (2 \times (2 \times (2222 - 2)))$
:= $3 + (((3 \times (3+3)) + 3)^3) + 3 \times 33 + 3/3$
:= $4 + ((4^4 + 4) \times (4 \times (4+4) + 4))$
:= $5^5 + ((5^5 - (55/5)) + 5^5)$
:= $(6 - ((6+6)/6)) \times (6 \times (6 \times 66 - 6) + 6/6)$
:= $7 + (((7/7 + 77 + 7) \times (777 - 7)/7) + 7)$
:= $8888 + (88 \times 88/(8+8) - 8)$
:= $9 + (((99/9) + 9 \times 9)^{(9+9)/9}) + 9 \times 99$
- 9365 := $((1+1) \times ((11 + (11-1)) \times (1 + (1+1) \times 111))) - 1$
:= $((2 \times 2 \times (22 + 2) + 2/2)^2) - (2 \times 22)$
:= $3^3 + ((3/3 + 3 + 3) \times ((33/3)^3 + 3))$
:= $4 + (((4^4 + 4) \times (4 \times (4+4) + 4)) + 4/4)$
:= $5 + ((5+5+5) \times (5^5 - 5)/5)$
:= $6 + (((6+6) \times ((6+6) \times (66 - 6/6))) - 6/6)$
:= $7 \times 7 + ((77 \times ((7+7)/7)^7 - 7) - 7/7)$
:= $8888 + ((8/8 + 8) \times (8 \times 8 - 88/8))$
:= $(9 \times (9 \times (99 + 9 + 9))) - ((999 + 9)/9)$
- 9366 := $(1+1) \times ((11 + (11-1)) \times (1 + (1+1) \times 111))$
:= $((2 \times 22) - 2) \times (222 + 2/2)$
:= $3 + (((3 \times (3+3)) + 3)^3) + 3 \times 33 + 3$
:= $4 + (((4^4 + 4) \times (4 \times (4+4) + 4)) + (4+4)/4)$
:= $5 + (((5+5+5) \times (5^5 - 5)/5) + 5/5)$
:= $6 + ((6+6) \times ((6+6) \times (66 - 6/6)))$
:= $7 \times ((77/7)^{(7+7+7)/7} + 7)$
:= $88 + ((8 \times ((8+8) \times (8 \times 8 + 8) + 8)) - ((8+8)/8))$
:= $(9 \times (9 \times (99 + 9 + 9))) - 999/9$
- 9367 := $1 + ((1+1) \times ((11 + (11-1)) \times (1 + (1+1) \times 111)))$
:= $2/2 + (((2 \times 22) - 2) \times (222 + 2/2))$
:= $3 + (((3 \times (3+3)) + 3)^3) + 3 \times 33 + 3/3 + 3$
:= $((44/4 + 4) \times (4/4 + 4)^4) - 4 - 4$
:= $((5 - (5+5)/5) \times (5^5 - 5/5)) - 5$
:= $6 + (((6+6) \times ((6+6) \times (66 - 6/6))) + 6/6)$
:= $7 + ((7 \times 7 - 7/7) \times ((7+7) \times (7+7) - 7/7))$
:= $88 + ((8 \times ((8+8) \times (8 \times 8 + 8) + 8)) - 8/8)$
:= $((9+9) \times (((9+9)/9)^9 + 9)) - 99/9$
- 9368 := $(1+1)^{11} + (((11^{1+1+1+1} - 1)/(1+1))$
:= $2 + (((2 \times 22) - 2) \times (222 + 2/2))$
:= $(3/3 + 3) \times (((33 \times ((3+3)^3 - 3) - 3)/3)$
:= $4 + (((4^4 + 4) \times (4 \times (4+4) + 4)) + 4)$
:= $5 + ((5 - (5+5)/5) \times ((5/5 - 5) + 5^5))$
:= $((6+6) \times (66 \times (6+6) - 6)) - ((6+6)/6)^6$
:= $7 + (((77+7)/7 \times (777 - 7/7)) + 7 \times 7)$
:= $88 + (8 \times ((8+8) \times (8 \times 8 + 8) + 8))$
:= $((9+9) \times (((9+9)/9)^9 + 9)) - 9/9 - 9$
- 9369 := $((11-1) \times (1+1)^{11}) - 11111$
:= $2 + (((2 \times 22) - 2) \times (222 + 2/2)) + 2/2$
:= $3 \times (3 \times (3 \times (333 + 3) + 33))$
:= $(4/4 + 4 + 4) \times (4 \times (4^4 + 4) + 4/4)$
:= $5^5 + ((5^5 - (55/5 + 5)) + 5^5)$
:= $((6 \times 6/(6+6)) \times ((6-6/6)^{6-6/6}) - 6)$
:= $((7+7)/7 + 7) \times ((7777/7 - 77) + 7)$
:= $8/8 + ((8 \times ((8+8) \times (8 \times 8 + 8) + 8)) + 88)$
:= $((9+9) \times (((9+9)/9)^9 + 9)) - 9$
- 9370 := $(11-1) \times ((1+1)^{11} - 1111)$
:= $22^2 + ((2 \times (2 \times 2222)) - 2)$
:= $3/3 + (((3 \times (3+3)) + 3)^3) + (3 \times (33 + 3))$
:= $44 + ((44 \times (4^4 - 44)) - (4+4)/4)$
:= $5^5 + (5^5 - 5 + 5^5)$
:= $6 + ((6 - ((6+6)/6)) \times (6 \times (6 \times 66 - 6) + 6/6))$
:= $7 \times 7 + ((77/7 \times ((77 \times 77 + 7)/7)) - 7)$
:= $8 + ((8 \times 8 - ((8+8)/8)) \times ((88 - 8/8) + 8 \times 8))$
:= $9/9 + (((9+9) \times (((9+9)/9)^9 + 9)) - 9)$
- 9371 := $1 + ((11-1) \times ((1+1)^{11} - 1111))$
:= $22^2 + ((2 \times (2 \times 2222)) - 2/2)$
:= $((333 - 3)/3) + (((3 \times (3+3)) + 3)^3)$
:= $((44/4 + 4) \times (4/4 + 4)^4) - 4$
:= $5^5 + ((5^5 - 5 + 5^5) + 5/5)$
:= $66/6 + ((6+6) \times ((6+6) \times (66 - 6/6)))$
:= $7 \times 7 + (((7+7)/7 + 77) \times (777/7 + 7))$
:= $8 + (((8+8) \times (8 \times (8 \times 8 + 8) + 8)) + (88/8) + 8)$
:= $(9+9)/9 + (((9+9) \times (((9+9)/9)^9 + 9)) - 9)$
- 9372 := $111 + ((11 + (11-1))^{1+1+1})$
:= $22 \times ((2 \times (222 + 2)) - 22)$
:= $333/3 + (((3 \times (3+3)) + 3)^3)$
:= $44 + (44 \times (4^4 - 44))$
:= $(5 - (5+5)/5) \times (5^5 - 5/5)$
:= $66 \times ((6+6) \times (6+6) - ((6+6)/6))$
:= $7 \times 7 + ((777 \times (77 + 7)/7) - 7/7)$
:= $8888 + 88 \times 88/(8+8)$
:= $(999999/99) - 9 \times 9 \times 9$

- 9373 := $1 + (111 + ((11 + (11 - 1))^{1+1+1}))$
:= $2/2 + ((2 \times (2 \times 2222)) + 22^2)$
:= $((333 + 3)/3) + (((3 \times (3 + 3)) + 3)^3)$
:= $44 + ((44 \times (4^4 - 44)) + 4/4)$
:= $5^5 + ((5^5 - (5 + 5)/5) + 5^5)$
:= $6/6 + (66 \times ((6 + 6) \times (6 + 6) - ((6 + 6)/6)))$
:= $7 \times 7 + (777 \times (77 + 7)/7)$
:= $(8 - 8/8) \times (((88/8)^{88/8-8}) + 8)$
:= $9999/9 + 9 \times (999 - 9 \times 9)$
- 9374 := $1 + (1 + (111 + ((11 + (11 - 1))^{1+1+1})))$
:= $2 + ((2 \times (2 \times 2222)) + 22^2)$
:= $3 + (((333 - 3)/3) + (((3 \times (3 + 3)) + 3)^3))$
:= $((44/4 + 4) \times (4/4 + 4)^4) - 4/4$
:= $5^5 + ((5^5 - 5/5) + 5^5)$
:= $(6 \times 6 + 6/6 + 6) \times (6 \times 6 \times 6 + (6 + 6)/6)$
:= $7/7 + ((777 \times (77 + 7)/7) + 7 \times 7)$
:= $(88 - ((8 + 8)/8)) \times ((888 - 8 - 8)/8)$
:= $9 + ((9 \times (9 \times (99 + 9 + 9))) - ((999 + 9)/9))$
- 9375 := $(1 + 1 + 1) \times ((1 + (1 + 1 + 1 + 1))^{1+1+1+1+1})$
:= $(2/2 + 2) \times ((2/2 + 2 + 2)^{2/2+2+2})$
:= $3 \times ((3 - 3/3 + 3)^{3-3/3+3})$
:= $(44/4 + 4) \times (4/4 + 4)^4$
:= $5^5 + (5^5 + 5^5)$
:= $(6 \times 6/(6 + 6)) \times ((6 - 6/6)^{6-6/6})$
:= $(77 - (7 + 7)/7) \times (777/7 + 7 + 7)$
:= $8 + (((8 \times (8 + 8) \times (8 \times 8 + 8) + 8)) - 8/8 + 88)$
:= $9 + ((9 \times (9 \times (99 + 9 + 9))) - 999/9)$
- 9376 := $1 + ((1 + 1 + 1) \times ((1 + (1 + 1 + 1 + 1))^{1+1+1+1+1}))$
:= $22^2 + (2 \times ((2 \times 2222) + 2))$
:= $3 + (((333 + 3)/3) + (((3 \times (3 + 3)) + 3)^3))$
:= $4 + ((44 \times (4^4 - 44)) + 44)$
:= $5^5 + ((5^5 + 5^5) + 5/5)$
:= $66 + (((6 + 6)/6 + 6 + 6) \times (666 - 6/6))$
:= $(77/7 \times (((77 \times 77 - 7)/7) + 7)) - 7$
:= $8 + ((8 \times (8 + 8) \times (8 \times 8 + 8) + 8)) + 88$
:= $(9 + 9) \times (((9 + 9)/9)^9 + 9) - (9 + 9)/9$
- 9377 := $((111 \times (1 + 1 + 11))^{1+1}) - 1/(1 + 1) - 1 - 1$
:= $2 + ((2/2 + 2) \times ((2/2 + 2 + 2)^{2/2+2+2}))$
:= $(33/3)^3 + (3 \times (3 \times (33 \times 3^3) + 3))$
:= $((4 - 4/4)^{4+4}) + (4 \times 4 \times 4 \times 44)$
:= $5 + ((5 - (5 + 5)/5) \times (5^5 - 5/5))$
:= $666 + (66 \times (66 + 66) - 6/6)$
:= $7 \times 7 + (77/7 \times ((77 \times 77 + 7)/7))$
:= $(88/8 - 8)^8 + (88 \times ((8 + 8 + 8) + 8))$
:= $(9 + 9) \times (((9 + 9)/9)^9 + 9) - 9/9$
- 9378 := $((111 \times (1 + 1 + 11))^{1+1}) - 1/(1 + 1) - 1$
:= $((22 + 2) \times (22 - 2)^2) - 222$
:= $3 + (3 \times ((3 - 3/3 + 3)^{3-3/3+3}))$
:= $4 + (((44/4 + 4) \times (4/4 + 4)^4) - 4/4)$
:= $(5 - (5 + 5)/5) \times (5^5 + 5/5)$
:= $666 + 66 \times (66 + 66)$
:= $(77/7 + 7) \times (7 \times 77 - (77/7 + 7))$
:= $((((8 + 8)/8) + 8) + 8) \times ((8 \times 8 \times 8 + 8/8) + 8)$
:= $(9 + 9) \times (((9 + 9)/9)^9 + 9)$
- 9379 := $((111 \times (1 + 1 + 11))^{1+1}) - 1/(1 + 1)$
:= $(222/2 + 2) \times ((2/2 + 2)^{2+2} + 2)$
:= $3^3 + ((3^3 + 3/3) \times (333 + 3/3))$
:= $4 + ((44/4 + 4) \times (4/4 + 4)^4)$
:= $5 + (((5^5 - 5/5) + 5^5) + 5^5)$
:= $6/6 + (66 \times (66 + 66) + 666)$
:= $(77 - 7/7 + 7) \times (777 + 7 + 7)/7$
:= $8 \times 8 + ((8/8 + 8) \times (8 \times 8 \times (8 + 8) + (88/8)))$
:= $9/9 + ((9 + 9) \times (((9 + 9)/9)^9 + 9))$
- 9380 := $(11 - 1) \times (1 + ((1 + 1)^{11} - 1111))$
:= $22^2 + (2 \times 2 \times (2222 + 2))$
:= $(3/3 + 3 + 3) \times ((33/3)^3 + 3 \times 3)$
:= $4 + (((44 \times (4^4 - 44)) + 44) + 4)$
:= $5 + ((5^5 + 5^5) + 5^5)$
:= $6 + ((6 \times 6 + 6/6 + 6) \times (6 \times 6 \times 6 + (6 + 6)/6))$
:= $7 + ((777 \times (77 + 7)/7) + 7 \times 7)$
:= $8 + (88 \times 88/(8 + 8) + 8888)$
:= $(9 + 9)/9 + ((9 + 9) \times (((9 + 9)/9)^9 + 9))$
- 9381 := $1 + ((11 - 1) \times (1 + ((1 + 1)^{11} - 1111)))$
:= $2 + ((222/2 + 2) \times ((2/2 + 2)^{2+2} + 2))$
:= $((3^3 + 3/3) \times (333 + 3)) - 3^3$
:= $(4^4 - 44)/4 \times (4 \times 44 + 4/4)$
:= $5 + (((5^5 + 5^5) + 5^5) + 5/5)$
:= $6 + ((6 \times 6/(6 + 6)) \times ((6 - 6/6)^{6-6/6}))$
:= $7 + (((777 \times (77 + 7)/7) + 7 \times 7) + 7/7)$
:= $8 \times 8 \times 8 + (8888 - (88/8 + 8))$
:= $999/9 + (9999 - 9 \times 9 \times 9)$
- 9382 := $11^{1+1} + ((11 + (11 - 1))^{1+1+1})$
:= $((2 \times 2 \times (22 + 2) + 2)^2) - 222$
:= $((3 \times (3 + 3)) + 3)^3 + ((33/3)^{3-3/3})$
:= $4 + (((44/4 + 4) \times (4/4 + 4)^4) - 4/4) + 4$
:= $5 + (((5 - (5 + 5)/5) \times (5^5 - 5/5)) + 5)$
:= $((6 + 6)/6) \times (((6 + 6) \times (6 \times 66 - 6)) + (66/6))$
:= $7 + ((77 - (7 + 7)/7) \times (777/7 + 7 + 7))$
:= $8 + ((88 - ((8 + 8)/8)) \times ((888 - 8 - 8)/8))$
:= $((99 - ((9 + 9)/9))^{(9+9)/9}) - (9 + 9 + 9)$
- 9383 := $11111 - ((1 + 11)^{1+1+1})$
:= $2/2 + (((2 \times 2 \times (22 + 2) + 2)^2) - 222)$
:= $33333/3 - (3 \times 3 + 3)^3$
:= $4 + (((44/4 + 4) \times (4/4 + 4)^4) + 4)$
:= $5 + ((5 - (5 + 5)/5) \times (5^5 + 5/5))$
:= $66/6 \times ((6 \times (6 + 6) \times (6 + 6)) - (66/6))$
:= $77/7 \times (((77 \times 77 - 7)/7) + 7)$
:= $8 \times 8 \times 8 + (8888 - (8/8 + 8 + 8))$
:= $99/9 \times (9 \times 99 - ((99/9 + 9 + 9) + 9))$
- 9384 := $1 + (11111 - ((1 + 11)^{1+1+1}))$
:= $(2 + 2 + 2) \times (2^{22/2} - 22^2)$
:= $3 \times (((3 - 3/3 + 3)^{3-3/3+3}) + 3)$
:= $(4 \times (((4 - 4/4) + 4)^4) - 44) - 44$
:= $5 + (((5^5 - 5/5) + 5^5) + 5^5) + 5$
:= $6 + (66 \times (66 + 66) + 666)$
:= $(77 + 7)/7 \times ((777 - ((7 + 7)/7)) + 7)$
:= $8 \times 8 \times 8 + (8888 - (8 + 8))$
:= $((99/9) + 9 \times 9) \times (999/9 - 9)$
- 9385 := $1 + (1 + (11111 - ((1 + 11)^{1+1+1})))$
:= $((22/2 + 2)^2) + (2 \times 2 \times (22 + 2))^2$
:= $33 + ((3^3 + 3/3) \times (333 + 3/3))$
:= $4 + ((4^4 - 44)/4 \times (4 \times 44 + 4/4))$
:= $5 + (((5^5 + 5^5) + 5^5) + 5)$
:= $6 + ((66 \times (66 + 66) + 666) + 6/6)$
:= $7 \times 7 + ((77 + 7)/7 \times (777 + 7/7))$
:= $8/8 + ((8888 - (8 + 8)) + 8 \times 8 \times 8)$
:= $(9 \times (9 \times (99 + 9 + 9)) - 9) - 99/9$
- 9386 := $1 + (1 + (1 + (11111 - ((1 + 11)^{1+1+1}))))$
:= $(22 + 2 + 2) \times ((22 - (2/2 + 2))^2)$
:= $(3 - 3/3 + 3)^3 + (((3 \times (3 + 3)) + 3)^3)$
:= $44/4 + ((44/4 + 4) \times (4/4 + 4)^4)$
:= $5^5 + ((55/5 + 5^5) + 5^5)$
:= $(6/6 + 6 + 6) \times ((6 + 6) \times (66 - 6) + ((6 + 6)/6))$
:= $(77 \times (777 + 77)/7) - (7/7 + 7)$
:= $8 + (((8 + 8)/8) + 8) \times ((8 \times 8 \times 8 + 8/8) + 8)$
:= $9 + (((9 + 9) \times ((9 + 9)/9)^9 + 9) - 9/9)$
- 9387 := $(11 + (11 - 1)) \times (1 + ((1 + 1) \times (1 + (1 + 1) \times 111)))$
:= $((2 \times 2 \times (22 + 2) + 2/2)^2) - 22$
:= $3 \times ((3 \times (3 \times 333 + 33)) + 33)$
:= $(4 - 4/4) \times (((4/4 + 4)^{4+4/4}) + 4)$
:= $(5 - (5 + 5)/5) \times ((5^5 - 5/5) + 5)$
:= $66 \times (6 + 6) \times (6 + 6) - (666/6 + 6)$
:= $(77 \times (777 + 77)/7) - 7$
:= $(8/8 + 8) \times ((8 \times 8 \times (8 + 8) + (88/8)) + 8)$
:= $9 + ((9 + 9) \times (((9 + 9)/9)^9 + 9))$

- 9388 := $1 + ((11 + (11 - 1)) \times (1 + ((1 + 1) \times (1 + (1 + 1) \times 11)))$
:= $2 + ((22 + 2 + 2) \times ((22 - (2/2 + 2))^2))$
:= $((3/3 + 3)^3) + (333 \times (3^3 + 3/3))$
:= $4 \times 4 + ((44 \times (4^4 - 44)) + 44)$
:= $5 + (((5 - (5 + 5)/5) \times (5^5 + 5/5)) + 5)$
:= $((6 + 6)/6)^6 + (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6)$
:= $7/7 + ((77 \times (777 + 77)/7) - 7)$
:= $8 \times 8 \times 8 + (8888 - ((88 + 8)/8))$
:= $9 + (((9 + 9) \times ((9 + 9)/9)^9 + 9)) + 9/9$
- 9389 := $((11 - 1) \times (1 + (1 + (1 + 1)^{11}))) - 11111$
:= $2 + (((2 \times 2 \times (22 + 2) + 2/2)^2) - 22)$
:= $3 + ((3 - 3/3 + 3)^3 + (((3 \times (3 + 3)) + 3)^3))$
:= $(4^4 + 4)/4 + ((44 \times (4^4 - 44)) - 4)$
:= $((5 + 5 + 5) \times (5^5 + 5)/5) - 5/5$
:= $66 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) - 6/6)$
:= $77 + ((77 + 7)/7 \times (777 - 7/7))$
:= $8 \times 8 \times 8 + (8888 - (88/8))$
:= $99/9 + ((9 + 9) \times ((9 + 9)/9)^9 + 9)$
- 9390 := $(11 - 1) \times (1 + (1 + ((1 + 1)^{11} - 1111)))$
:= $(2 \times (2 \times (((2 \times (22 + 2))^2) + 2 \times 22))) - 2$
:= $3 + (((((3 \times (3 + 3)) + 3)^3) + 3 \times 33) + 3^3)$
:= $(44/4 + 4) \times ((4/4 + 4)^4 + 4/4)$
:= $(5 + 5 + 5) \times (5^5 + 5)/5$
:= $66 + (6 \times 6 + 6) \times (6 \times 6 \times 6 + 6)$
:= $7 + (77/7 \times (((77 \times 77 - 7)/7) + 7))$
:= $8 \times 8 \times 8 + ((8 - 88)/8 + 8888)$
:= $(99 + 9)/9 + ((9 + 9) \times (((9 + 9)/9)^9 + 9))$
- 9391 := $((1 + 1)^{1+1+11}) + (11 \times (111 - 1 - 1))$
:= $2 + (((2 \times 2 \times (22 + 2) + 2/2)^2) - 22) + 2$
:= $3 + ((333 \times (3^3 + 3/3)) + ((3/3 + 3)^3))$
:= $4 \times 4 + ((44/4 + 4) \times (4/4 + 4)^4)$
:= $5/5 + ((5 + 5 + 5) \times (5^5 + 5)/5)$
:= $66 + ((6 \times 6 + 6) \times (6 \times 6 \times 6 + 6) + 6/6)$
:= $7 + ((77 + 7)/7 \times ((777 - (7 + 7)/7) + 7))$
:= $8 \times 8 \times 8 + (8888 - (8/8 + 8))$
:= $((99 - ((9 + 9)/9))^{(9+9)/9}) - (9 + 9)$
- 9392 := $1 + (((1 + 1)^{1+1+11}) + (11 \times (111 - 1 - 1)))$
:= $2 \times (2 \times (((2 \times (22 + 2))^2) + 2 \times 22))$
:= $3 + (((3 - 3/3 + 3)^3 + (((3 \times (3 + 3)) + 3)^3)) + 3)$
:= $4 \times (4^4 \times (4 + 4) + 4^4) + 44$
:= $5 + ((5 - (5 + 5)/5) \times ((5^5 - 5/5) + 5))$
:= $66 \times (6 + 6) \times (6 + 6) - (666 + 6)/6$
:= $(7/7 + 7) \times ((7 + 7) \times (77 + 7) - ((7 + 7)/7))$
:= $8 \times 8 \times 8 + (8888 - 8)$
:= $9/9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) - (9 + 9))$
- 9393 := $(11 \times (1 + 11)) + ((11 + (11 - 1))^{1+1+1})$
:= $((2 \times 2 \times (22 + 2) + 2/2)^2) - 2^{2+2}$
:= $33 + (((3 \times (3 + 3)) + 3)^3) + 3 \times 33$
:= $(4^4 + 4)/4 + (44 \times (4^4 - 44))$
:= $(5 - (5 + 5)/5) \times ((5^5 + 5/5) + 5)$
:= $66 \times (6 + 6) \times (6 + 6) - 666/6$
:= $(77 \times (777 + 77)/7) - 7/7$
:= $8/8 + ((8888 - 8) + 8 \times 8 \times 8)$
:= $9 + (((99/9) + 9 \times 9) \times (999/9 - 9))$
- 9394 := $11 + (11111 - ((1 + 11)^{1+1+1}))$
:= $2 + (2 \times (2 \times (((2 \times (22 + 2))^2) + 2 \times 22)))$
:= $33/3 \times ((3 - 3/3 + 3)^3 + 3^{3+3})$
:= $4 + ((44/4 + 4) \times ((4/4 + 4)^4 + 4/4))$
:= $5 + (((5 + 5 + 5) \times (5^5 + 5)/5) - 5/5)$
:= $((6 - 666)/6) + 66 \times (6 + 6) \times (6 + 6)$
:= $77 \times (777 + 77)/7$
:= $8 \times 8 \times 8 + ((8888 - 8) + ((8 + 8)/8))$
:= $(9 \times ((9 \times (99 + 9 + 9)) - 9)) - (9 + 9)/9$
- 9395 := $1 + (11 + (11111 - ((1 + 11)^{1+1+1})))$
:= $2 + (((2 \times 2 \times (22 + 2) + 2/2)^2) - 2^{2+2})$
:= $(33/3)^3 + ((3^3 - 3) \times (333 + 3))$
:= $4 + (((44/4 + 4) \times (4/4 + 4)^4) + 4 \times 4)$
:= $5 + ((5 + 5 + 5) \times (5^5 + 5)/5)$
:= $((6 + 6) \times (66 \times (6 + 6) - 6)) - (6 \times 6 + 6/6)$
:= $7/7 + (77 \times (777 + 77)/7)$
:= $8 + ((8/8 + 8) \times ((8 \times 8 \times (8 + 8) + (88/8)) + 8))$
:= $(9 \times ((9 \times (99 + 9 + 9)) - 9)) - 9/9$
- 9396 := $(1 + 11) \times (((1 + (1 + 1 + 1)^{1+1+1})^{1+1}) - 1)$
:= $2 \times (2 \times (((2 \times (22 + 2))^2) + 2 \times 22)) + 2$
:= $3 \times ((33 + 3) \times (3 \times 3^3 + 3 + 3))$
:= $(4/4 + 4 + 4) \times (4 \times (4^4 + 4) + 4)$
:= $5 + (((5 + 5 + 5) \times (5^5 + 5)/5) + 5/5)$
:= $(66 - 6 - 6) \times (6 \times (6 \times 6 - 6) - 6)$
:= $(77 + 7)/7 \times ((777 - 7/7) + 7)$
:= $8 \times 8 \times 8 + (8888 - 8 \times 8/(8 + 8))$
:= $9 \times ((9 \times (99 + 9 + 9)) - 9)$
- 9397 := $((111 - (1 + (1 + 1 + 11)))^{1+1}) - 1 - 11$
:= $((2 \times 22) - 2) \times (222 + 2) - 22/2$
:= $3/3 + (3 \times ((33 + 3) \times (3 \times 3^3 + 3 + 3)))$
:= $4 + ((44 \times (4^4 - 44)) + (4^4 + 4)/4)$
:= $5 \times 5 + ((5 - (5 + 5)/5) \times (5^5 - 5/5))$
:= $6/6 + ((66 - 6 - 6) \times (6 \times (6 \times 6 - 6) - 6))$
:= $((7 + 7) \times ((7 + 7) \times (7 \times 7 - 7/7))) - 77/7$
:= $8 + ((8888 - (88/8)) + 8 \times 8 \times 8)$
:= $9/9 + (9 \times ((9 \times (99 + 9 + 9)) - 9))$
- 9398 := $((111 - (1 + (1 + 1 + 11)))^{1+1}) - 11$
:= $(2^{2 \times (2+2)} - 2) \times ((2 + 2 + 2)^2 + 2/2)$
:= $3 \times 3^3 + ((3/3 + 3 + 3) \times (33/3)^3)$
:= $(4 + 4)/4 \times ((4444 - 4/4) + 4^4)$
:= $5 + ((5 - (5 + 5)/5) \times ((5^5 + 5/5) + 5))$
:= $(6 \times 6 + 6/6) \times (6 \times (6 \times 6 + 6) + ((6 + 6)/6))$
:= $((7 \times (7 + 7) - 7/7)^{(7+7)/7}) - 77/7$
:= $8 \times 8 \times 8 + (8888 - ((8 + 8)/8))$
:= $(9 + 9)/9 + (9 \times ((9 \times (99 + 9 + 9)) - 9))$
- 9399 := $1 + (((111 - (1 + (1 + 1 + 11)))^{1+1}) - 11)$
:= $(22^2 - 2)/2 \times (2 \times (22 - 2) - 2/2)$
:= $3 + (3 \times ((33 + 3) \times (3 \times 3^3 + 3 + 3)))$
:= $(4 - 4/4) \times (((4/4 + 4)^4 + 4/4) + 4) + 4$
:= $5 \times 5 + (((5^5 - 5/5) + 5^5) + 5^5)$
:= $(6/6 + 6 + 6) \times (((6 \times 6/(6 + 6))^6) - 6)$
:= $7 + ((7/7 + 7) \times ((7 + 7) \times (77 + 7) - ((7 + 7)/7)))$
:= $8 \times 8 \times 8 + (8888 - 8/8)$
:= $((9 + 9 + 9)/9) + (9 \times ((9 \times (99 + 9 + 9)) - 9))$
- 9400 := $1 + (1 + (((111 - (1 + (1 + 1 + 11)))^{1+1}) - 11))$
:= $2 \times ((2 \times 2222) + 2^{2 \times (2+2)})$
:= $((((3/3 + 3)^3) + 33)^{3-3/3}) - 3 \times 3$
:= $(4 + 4) \times ((4444 + 4^4)/4)$
:= $5 \times ((5 \times (5 \times (5 \times (5 + 5 + 5)))) + 5)$
:= $6 + (66 \times (6 + 6) \times (6 + 6) + ((6 - 666)/6))$
:= $(7/7 + 7) \times ((7 + 7) \times (77 + 7) - 7/7)$
:= $8 \times 8 \times 8 + 8888$
:= $((99 - ((9 + 9)/9))^{(9+9)/9}) - 9$
- 9401 := $(11 \times (111 - 1)) + (((1 + 1)^{1+1+11}) - 1)$
:= $((22/2)^2 - 2) \times ((2/2 + 2)^{2+2} - 2)$
:= $(3/3 + 3 + 3) \times (((33/3)^3 + 3 \times 3) + 3)$
:= $4/4 + ((4 + 4) \times ((4444 + 4^4)/4))$
:= $5 \times 5 + (((5^5 + 5^5) + 5^5) + 5/5)$
:= $(6/6 + 6) \times ((6 \times (6 \times 6 \times 6 + 6)) + (66/6))$
:= $7 + (77 \times (777 + 77)/7)$
:= $8/8 + (8888 + 8 \times 8 \times 8)$
:= $9/9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) - 9)$
- 9402 := $11 \times (111 - 1) + (1 + 1)^{1+1+11}$
:= $2 + (2 \times ((2 \times 2222) + 2^{2 \times (2+2)}))$
:= $33 \times (3 \times (3 \times 33 - 3) - 3) - 3$
:= $(4 + 4)/4 \times ((4444 + 4^4) + 4/4)$
:= $(5 - (5 + 5)/5) \times (((5^5 - 5/5) + 5) + 5)$
:= $6 + ((66 - 6 - 6) \times (6 \times (6 \times 6 - 6) - 6))$
:= $((7 \times (7 + 7) - 7/7)^{(7+7)/7}) - 7$
:= $8 \times 8 \times 8 + (8888 + ((8 + 8)/8))$
:= $9 + (((99/9) + 9 \times 9) \times (999/9 - 9)) + 9$

$$\begin{aligned}
\blacktriangleright 9403 &:= 1 + 11 \times (111 - 1) + (1 + 1)^{1+1+11} \\
&:= ((2 \times 2 \times (22 + 2) + 2/2)^2) - 2 - 2 - 2 \\
&:= 33 \times (3 \times (3 \times 33 - 3) - 3) - 3 + 3/3 \\
&:= 44 + (((4^4 + 4) \times (4 \times (4 + 4) + 4)) - 4/4) \\
&:= 5 \times 5 + ((5 - (5 + 5)/5) \times (5^5 + 5/5)) \\
&:= (((66 - 6 + 6/6) + 6 \times 6)^{(6+6)/6}) - 6 \\
&:= 7 + ((77 + 7)/7 \times ((777 - 7/7) + 7)) \\
&:= 8 \times 8 \times 8 + ((8888 - 8) + (88/8)) \\
&:= 9 + ((9 \times ((9 \times (99 + 9 + 9)) - 9)) - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9404 &:= 1 + 1 + 11 \times (111 - 1) + (1 + 1)^{1+1+11} \\
&:= 2 \times (((22 + 2) \times ((2^{2+2} - 2)^2)) - 2) \\
&:= 33 \times (3 \times (3 \times 33 - 3) - 3) - 3/3 \\
&:= 44 + ((4^4 + 4) \times (4 \times (4 + 4) + 4)) \\
&:= ((5 + 5 + 5) \times (5^5 + 5 + 5)/5) - 5/5 \\
&:= 6 + ((6 \times 6 + 6/6) \times (6 \times (6 \times 6 + 6) + ((6 + 6)/6))) \\
&:= (77/7 - 7) \times (7 \times (7 \times 7 \times 7 - 7) - 7/7) \\
&:= 8 \times 8 \times 8 + (8888 + 8 \times 8/(8 + 8)) \\
&:= 9 + ((9 \times ((9 \times (99 + 9 + 9)) - 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9405 &:= 1 + 1 + 1 + 11 \times (111 - 1) + (1 + 1)^{1+1+11} \\
&:= ((2 \times 2 \times (22 + 2) + 2/2)^2) - 2 - 2 \\
&:= 33 \times (3 \times (3 \times 33 - 3) - 3) \\
&:= 44/4 \times (4444/4 - 4^4) \\
&:= (5 + 5 + 5) \times (5^5 + 5 + 5)/5 \\
&:= 6 + ((6/6 + 6 + 6) \times (((6 \times 6/(6 + 6))^6) - 6)) \\
&:= 77/7 \times (((77 \times 77 + 7)/7) + 7) \\
&:= (88 - 8/8 + 8) \times (88/8 + 88) \\
&:= 9 + (9 \times ((9 \times (99 + 9 + 9)) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9406 &:= (1 + 1 + 1) \times ((1 + 111)/(1 + 1))^{1+1} - 1 - 1 \\
&:= (((2 \times 22) - 2) \times (222 + 2)) - 2 \\
&:= 33 \times (3 \times (3 \times 33 - 3) - 3) + 3/3 \\
&:= ((44 + 4) \times ((4 \times (44 + 4)) + 4)) - (4 + 4)/4 \\
&:= 5/5 + ((5 + 5 + 5) \times (5^5 + 5 + 5)/5) \\
&:= ((6 + 6)/6) \times (((6/6 + 6) \times (666 + 6)) - 6/6) \\
&:= ((7 + 7)/7) \times (((7 + 7) \times (7 \times 7 \times 7 - 7)) - 7/7) \\
&:= 8 + ((8888 - ((8 + 8)/8)) + 8 \times 8 \times 8) \\
&:= 9 + ((9 \times ((9 \times (99 + 9 + 9)) - 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9407 &:= ((111 - (1 + (1 + 1 + 11)))^{1+1}) - 1 - 1 \\
&:= ((2 \times 2 \times (22 + 2) + 2/2)^2) - 2 \\
&:= ((3^3 + 3/3) \times (333 + 3)) - 3/3 \\
&:= ((44 + 4) \times ((4 \times (44 + 4)) + 4)) - 4/4 \\
&:= 5^5 + (((5 + 5)/5)^5 + 5^5) + 5^5 \\
&:= ((666 + 6) \times ((6 + 6)/6 + 6 + 6)) - 6/6 \\
&:= ((7 + 7) \times ((7 + 7) \times (7 \times 7 - 7/7))) - 7/7 \\
&:= 8 + ((8888 - 8/8) + 8 \times 8 \times 8) \\
&:= 99/9 + (9 \times ((9 \times (99 + 9 + 9)) - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9408 &:= (1 + 1 + 1) \times ((1 + 111)/(1 + 1))^{1+1} \\
&:= ((2 \times 22) - 2) \times (222 + 2) \\
&:= (3^3 + 3/3) \times (333 + 3) \\
&:= (44 + 4) \times ((4 \times (44 + 4)) + 4) \\
&:= (5 - (5 + 5)/5) \times (55/5 + 5^5) \\
&:= (666 + 6) \times ((6 + 6)/6 + 6 + 6) \\
&:= (7 + 7) \times ((7 + 7) \times (7 \times 7 - 7/7)) \\
&:= 8 + (8888 + 8 \times 8 \times 8) \\
&:= (99 - 9/9) \times (99 - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9409 &:= (111 - (1 + (1 + 1 + 11)))^{1+1} \\
&:= (2 \times 2 \times (22 + 2) + 2/2)^2 \\
&:= (((3/3 + 3)^3) + 33)^{3-3/3} \\
&:= ((4 - 4/4)^4 + 4 \times 4)^{(4+4)/4} \\
&:= 5 + (((5 + 5 + 5) \times (5^5 + 5 + 5)/5) - 5/5) \\
&:= ((66 - 6 + 6/6) + 6 \times 6)^{(6+6)/6} \\
&:= (7 \times (7 + 7) - 7/7)^{(7+7)/7} \\
&:= ((8/8 + 88) + 8)^{(8+8)/8} \\
&:= (99 - ((9 + 9)/9))^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9410 &:= 1 + ((111 - (1 + (1 + 1 + 11)))^{1+1}) \\
&:= 2 + (((2 \times 22) - 2) \times (222 + 2)) \\
&:= 3 + (((3^3 + 3/3) \times (333 + 3)) - 3/3) \\
&:= 4/4 + (((4 - 4/4)^4 + 4 \times 4)^{(4+4)/4}) \\
&:= 5 + ((5 + 5 + 5) \times (5^5 + 5 + 5)/5) \\
&:= 6/6 + (((66 - 6 + 6/6) + 6 \times 6)^{(6+6)/6}) \\
&:= 7/7 + ((7 \times (7 + 7) - 7/7)^{(7+7)/7}) \\
&:= 8/8 + (((8/8 + 88) + 8)^{(8+8)/8}) \\
&:= 9/9 + ((99 - ((9 + 9)/9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9411 &:= 1 + (1 + ((111 - (1 + (1 + 1 + 11)))^{1+1})) \\
&:= 2 + ((2 \times 2 \times (22 + 2) + 2/2)^2) \\
&:= 3 + ((3^3 + 3/3) \times (333 + 3)) \\
&:= 4 + (((44 + 4) \times ((4 \times (44 + 4)) + 4)) - 4/4) \\
&:= (5 - (5 + 5)/5) \times (((55 + 5)/5) + 5^5) \\
&:= ((6/6 + 6 + 6) \times ((6 \times 6/(6 + 6))^6)) - 6/6 \\
&:= (7 + 7)/7 + ((7 \times (7 + 7) - 7/7)^{(7+7)/7}) \\
&:= 8 \times 8 \times 8 + (8888 + (88/8)) \\
&:= (9 + 9)/9 + ((99 - ((9 + 9)/9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9412 &:= 11 \times 111 + (((1 + 1)^{1+1+11}) - 1) \\
&:= 2 + (((2 \times 22) - 2) \times (222 + 2)) + 2 \\
&:= 3 + (((3/3 + 3)^3) + 33)^{3-3/3} \\
&:= 4 + ((44 + 4) \times ((4 \times (44 + 4)) + 4)) \\
&:= 5 + (((5 + 5)/5)^5 + 5^5) + 5^5 \\
&:= (6/6 + 6 + 6) \times ((66 \times 66 - 6 - 6)/6) \\
&:= 7 + (77/7 \times (((77 \times 77 + 7)/7) + 7)) \\
&:= 8 \times 8 \times 8 + (((88 + 8)/8) + 8888) \\
&:= 9 + (((9 \times (9 \times (99 + 9 + 9)) - 9)) - ((9 + 9)/9)) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9413 &:= 11 \times 111 + ((1 + 1)^{1+1+11}) \\
&:= 2 + (((2 \times 2 \times (22 + 2) + 2/2)^2) + 2) \\
&:= 3 + (((3^3 + 3/3) \times (333 + 3)) - 3/3) + 3) \\
&:= 4 + (((4 - 4/4)^4 + 4 \times 4)^{(4+4)/4}) \\
&:= 5 + ((5 - (5 + 5)/5) \times (55/5 + 5^5)) \\
&:= 6 + (((666 + 6) \times ((6 + 6)/6 + 6 + 6)) - 6/6) \\
&:= 77 + ((77 + 7)/7 \times (777 + 7/7)) \\
&:= 8 + ((88 - 8/8 + 8) \times (88/8 + 88)) \\
&:= (((9 + 9)/9)^9) + ((9 \times (999 - 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9414 &:= 1 + (11 \times 111 + ((1 + 1)^{1+1+11})) \\
&:= (2 \times (22 \times (222 - 2 \times (2 + 2)))) - 2 \\
&:= 3 + (((3^3 + 3/3) \times (333 + 3)) + 3) \\
&:= 4 + (((4 - 4/4)^4 + 4 \times 4)^{(4+4)/4}) + 4/4 \\
&:= 5 \times 5 + (((5 + 5 + 5) \times (5^5 + 5)/5) - 5/5) \\
&:= 6 + ((666 + 6) \times ((6 + 6)/6 + 6 + 6)) \\
&:= 7 + (((7 + 7) \times ((7 + 7) \times (7 \times 7 - 7/7))) - 7/7) \\
&:= (8/8 + 8) \times ((8888 - 8)/8 - 8 \times 8) \\
&:= 9 + ((9 \times ((9 \times (99 + 9 + 9)) - 9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9415 &:= 1 + (1 + (11 \times 111 + ((1 + 1)^{1+1+11}))) \\
&:= 2 + (((2 \times 2 \times (22 + 2) + 2/2)^2) + 2) + 2) \\
&:= 3 + (((3/3 + 3)^3) + 33)^{3-3/3} + 3) \\
&:= 44 + (((44/4 + 4) \times (4/4 + 4)^4) - 4) \\
&:= 5 \times 5 + ((5 + 5 + 5) \times (5^5 + 5)/5) \\
&:= 6 + (((66 - 6 + 6/6) + 6 \times 6)^{(6+6)/6}) \\
&:= 7 + ((7 + 7) \times ((7 + 7) \times (7 \times 7 - 7/7))) \\
&:= (88 \times ((88/8 + 88) + 8)) - 8/8 \\
&:= 9 + (((9 \times (9 \times (99 + 9 + 9)) - 9)) + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9416 &:= 11 \times ((11 - 1)^{1+1+1} - (1 + 11)^{1+1}) \\
&:= 2 \times (22 \times (222 - 2 \times (2 + 2))) \\
&:= 3 \times 33 + ((3/3 + 3 + 3) \times (33/3)^3) \\
&:= 44 \times (((4 + 4)/4 - 44) + 4^4) \\
&:= 5 + ((5 - (5 + 5)/5) \times (((55 + 5)/5) + 5^5)) \\
&:= 66/6 \times (66 \times (6 + 6) + ((6 + 6)/6)^6) \\
&:= 7 + ((7 \times (7 + 7) - 7/7)^{(7+7)/7}) \\
&:= 88 \times ((88/8 + 88) + 8) \\
&:= (99 - (99/9)) \times ((99 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9417 &:= 1 + (11 \times ((11 - 1)^{1+1+1} - (1 + 11)^{1+1})) \\
&:= 2/2 + (2 \times (22 \times (222 - 2 \times (2 + 2)))) \\
&:= 3 \times 3 + ((3^3 + 3/3) \times (333 + 3)) \\
&:= 4 + (((4 - 4/4)^4 + 4 \times 4)^{(4+4)/4}) + 4 \\
&:= (5 - (5 + 5)/5) \times (((5^5 - 5/5) + 5) + 5) + 5 \\
&:= 6 + (((6/6 + 6 + 6) \times ((6 \times 6/(6 + 6))^6)) - 6/6) \\
&:= 7 + (((7 \times (7 + 7) - 7/7)^{(7+7)/7}) + 7/7) \\
&:= 8 + (((8/8 + 88) + 8)^{(8+8)/8}) \\
&:= 9 + ((99 - 9/9) \times (99 - ((9 + 9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9418 &:= 11 + (((111 - (1 + (1 + 1 + 11)))^{1+1}) - (1 + 1)) \\
&:= 2 + (2 \times (22 \times (222 - 2 \times (2 + 2)))) \\
&:= 3 \times 3 + (((3/3 + 3)^3) + 33)^{3-3/3} \\
&:= 44 + (((44/4 + 4) \times (4/4 + 4)^4) - 4/4) \\
&:= (((55 + 5)/5) + 5) \times (555 - 5/5) \\
&:= 6 + ((6/6 + 6 + 6) \times ((66 \times 66 - 6 - 6)/6)) \\
&:= 7 + (((7 \times (7 + 7) - 7/7)^{(7+7)/7}) + ((7 + 7)/7)) \\
&:= 8 + (((8/8 + 88) + 8)^{(8+8)/8}) + 8/8 \\
&:= 9 + ((99 - ((9 + 9)/9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9419 &:= 11 + (1 + 1 + 1) \times ((1 + 111)/(1 + 1))^{1+1} \\
&:= 22/2 + (((2 \times 22) - 2) \times (222 + 2)) \\
&:= 33/3 + ((3^3 + 3/3) \times (333 + 3)) \\
&:= 44 + ((44/4 + 4) \times (4/4 + 4)^4) \\
&:= 55 + (((5^5 - (55/5)) + 5^5) + 5^5) \\
&:= ((6 + 6) \times (66 \times (6 + 6) - 6)) - (6/6 + 6 + 6) \\
&:= 77/7 + ((7 + 7) \times ((7 + 7) \times (7 \times 7 - 7/7))) \\
&:= 8 + ((8888 + 8 \times 8 \times 8) + (88/8)) \\
&:= 9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9420 &:= 11 + ((111 - (1 + (1 + 1 + 11)))^{1+1}) \\
&:= 2 \times (22 \times (222 - 2 \times (2 + 2))) + 2 \\
&:= (3 + 3) \times 3^3 + (((3 \times (3 + 3)) + 3)^3) - 3 \\
&:= 4 + (44 \times (((4 + 4)/4 - 44) + 4^4)) \\
&:= 5^5 + (((5 + 5) \times (5^5/5 + 5)) - 5) \\
&:= (6 + 6) \times (66 \times (6 + 6) - (6/6 + 6)) \\
&:= (77 + 7)/7 \times ((777 + 7/7) + 7) \\
&:= 88/8 + (((8/8 + 88) + 8)^{(8+8)/8}) \\
&:= 99/9 + ((99 - ((9 + 9)/9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9421 &:= 1 + (11 + ((111 - (1 + (1 + 1 + 11)))^{1+1})) \\
&:= 2 + (((2 \times 22) - 2) \times (222 + 2)) + 22/2 \\
&:= 3 + (((((3/3 + 3)^3) + 33)^{3-3/3}) + 3 \times 3) \\
&:= ((4 - 4/4)^{4+4}) + (44 \times (4^4 + 4)/4) \\
&:= (5/5 + 5)^5 + ((55 \times (5 \times 5 + 5)) - 5) \\
&:= ((6 + 6) \times (66 \times (6 + 6) - 6)) - 66/6 \\
&:= (777/7 \times (7/7 + 77 + 7)) - (7 + 7) \\
&:= 8 + (((88 - 8/8 + 8) \times (88/8 + 88)) + 8) \\
&:= (((9 + 9)/9)^9) + ((9 \times (999 - 9)) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9422 &:= 1 + (1 + (11 + ((111 - (1 + (1 + 1 + 11)))^{1+1}))) \\
&:= 2 + (2 \times ((22 \times (222 - 2 \times (2 + 2))) + 2)) \\
&:= (3 + 3) \times 3^3 + (((3 \times (3 + 3)) + 3)^3) - 3/3 \\
&:= (4 + 4)^4 + (((4 + 4) + 4) \times 444) - (4 + 4)/4 \\
&:= 55 + (((5 - (5 + 5)/5) \times (5^5 - 5/5)) - 5) \\
&:= (6 - 66)/6 + ((6 + 6) \times (66 \times (6 + 6) - 6)) \\
&:= 7 + (((7 + 7) \times ((7 + 7) \times (7 \times 7 - 7/7))) + 7) \\
&:= 8 + ((8/8 + 8) \times ((8888 - 8)/8 - 8 \times 8)) \\
&:= (((9 + 9)/9)^9) + (9 \times (999 - 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9423 &:= (11 \times (1 + 111)) + (((1 + 1)^{1+1+11}) - 1) \\
&:= 2^{2+2} + (((2 \times 2 \times (22 + 2) + 2/2)^2) - 2) \\
&:= 3 \times ((33 \times (3 \times 33 - 3)) - 3^3) \\
&:= 4 + (((44/4 + 4) \times (4/4 + 4)^4) + 44) \\
&:= (5 - (5 + 5)/5) \times ((55/5 + 5^5) + 5) \\
&:= (((6 - 66) + 6)/6) + ((6 + 6) \times (66 \times (6 + 6) - 6)) \\
&:= 7 + (((7 \times (7 + 7) - 7/7)^{(7+7)/7}) + 7) \\
&:= (8/8 + 8) \times (8888/8 - 8 \times 8) \\
&:= 9 + (((9 \times ((9 \times (99 + 9 + 9)) - 9)) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9424 &:= (11 \times (1 + 111)) + ((1 + 1)^{1+1+11}) \\
&:= (2 \times (2 + 2) + 2)^{2+2} - ((22 + 2)^2) \\
&:= 3/3 + (((3 \times (3 + 3)) + 3)^3) + (3 + 3) \times 3^3 \\
&:= 4 \times (((4 + 4) \times (44 + 4^4)) - 44) \\
&:= 5^5 + (((5 + 5) \times (5^5/5 + 5)) - 5/5) \\
&:= ((6 + 6) \times (66 \times (6 + 6) - 6)) - ((6 + 6)/6 + 6) \\
&:= (7/7 + 7) \times ((7 + 7) \times (77 + 7) + ((7 + 7)/7)) \\
&:= 8 + (88 \times ((88/8 + 88) + 8)) \\
&:= (9 - 9/9) \times (((99 \times (99 + 9)) - 9)/9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9425 &:= 1 + ((11 \times (1 + 111)) + ((1 + 1)^{1+1+11})) \\
&:= 2^{2+2} + ((2 \times 2 \times (22 + 2) + 2/2)^2) \\
&:= ((3 \times 3 + 3/3) + 3) \times (3^{3+3} - (3/3 + 3)) \\
&:= (4^4 + 4)/4 \times (4^4 - 444/4) \\
&:= 5^5 + ((5 + 5) \times (5^5/5 + 5)) \\
&:= (6/6 + 6 + 6) \times ((66 \times 66 - 6)/6) \\
&:= 77 + ((77 + 7)/7 \times (((7 + 7)/7) + 777)) \\
&:= 8 + (((8/8 + 88) + 8)^{(8+8)/8}) + 8 \\
&:= 9 + ((99 - (99/9)) \times ((99 - 9/9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9426 &:= ((11 + 11)^{1+1+1}) - (1 + 11 \times 111) \\
&:= 2 + ((2 \times (2 + 2) + 2)^{2+2} - ((22 + 2)^2)) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) + (3 + 3) \times 3^3 \\
&:= (4 \times (((4 - 4/4) + 4)^4) - 44) - (4 + 4)/4 \\
&:= (5/5 + 5)^5 + (55 \times (5 \times 5 + 5)) \\
&:= ((6 + 6) \times (66 \times (6 + 6) - 6)) - 6 \\
&:= 7 + (((7 + 7) \times ((7 + 7) \times (7 \times 7 - 7/7))) + (77/7)) \\
&:= 8 + (((8/8 + 88) + 8)^{(8+8)/8}) + 8/8 + 8 \\
&:= 9 + (((99 - 9/9) \times (99 - ((9 + 9 + 9)/9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9427 &:= ((11 + 11)^{1+1+1}) - 11 \times 111 \\
&:= 22/2 \times (2 \times 22^2 - 222/2) \\
&:= 33/3 \times ((33 \times 3^3) - (3/3 + 33)) \\
&:= (4 \times (((4 - 4/4) + 4)^4) - 44) - 4/4 \\
&:= 55 + ((5 - (5 + 5)/5) \times (5^5 - 5/5)) \\
&:= 6/6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) - 6) \\
&:= 7 + ((77 + 7)/7 \times ((777 + 7/7) + 7)) \\
&:= 88/8 + (88 \times ((88/8 + 88) + 8)) \\
&:= 9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9428 &:= 1 + (((11 + 11)^{1+1+1}) - 11 \times 111) \\
&:= 2 \times (((2 \times (2 \times 22 + 2)^2) - 2) + 22^2) \\
&:= 3 + (((3 \times 3 + 3/3) + 3) \times (3^{3+3} - (3/3 + 3))) \\
&:= 4 \times (((4 - 4/4) + 4)^4) - 44 \\
&:= 5 + ((5 - (5 + 5)/5) \times ((55/5 + 5^5) + 5)) \\
&:= (6 + 6)/6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) - 6) \\
&:= (777/7 \times (7/7 + 77 + 7)) - 7 \\
&:= 8 + (((8/8 + 88) + 8)^{(8+8)/8}) + (88/8) \\
&:= 9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) + 9/9) + 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9429 &:= 1 + (1 + (((11 + 11)^{1+1+1}) - 11 \times 111)) \\
&:= 22 + (((2 \times 2 \times (22 + 2) + 2/2)^2) - 2) \\
&:= ((3^3 - 3) \times ((33 \times (3 \times 3 + 3)) - 3)) - 3 \\
&:= 4/4 + (4 \times (((4 - 4/4) + 4)^4) - 44) \\
&:= 55 + (((5^5 - 5/5) + 5^5) + 5^5) \\
&:= ((6 + 6) \times (66 \times (6 + 6) - 6)) - 6 \times 6/(6 + 6) \\
&:= ((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) - 77 \\
&:= (8 - 8/8) \times (((88/8)^{88/8-8}) + 8) + 8 \\
&:= 9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9430 &:= (11 - 1) \times (1 + (1111 - (1 + 1 + 11))^{1+1}) \\
&:= 22 + (((2 \times 22) - 2) \times (222 + 2)) \\
&:= (3 \times 3^3 + 3/3) \times (((333 + 3)/3) + 3) \\
&:= (4 + 4)/4 + (4 \times (((4 - 4/4) + 4)^4) - 44) \\
&:= 55 + ((5^5 + 5^5) + 5^5) \\
&:= ((6 + 6) \times (66 \times (6 + 6) - 6)) - (6 + 6)/6 \\
&:= 7 + (((7 \times (7 + 7) - 7/7)^{(7+7)/7}) + 7) + 7 \\
&:= 88 + (((8 + 8) \times (8 \times (8 \times 8 + 8) + 8)) - ((8 + 8)/8)) \\
&:= (9/9 + 9) \times (((9 + 9)/9)^{9/9+9}) - 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9431 &:= 11 + (11 + ((111 - (1 + (1 + 1 + 11)))^{1+1})) \\
&:= 22 + ((2 \times 2 \times (22 + 2) + 2/2)^2) \\
&:= (33/3)^3 + (3^3 \times (3 \times 3 + 33 + 3)) \\
&:= ((44/4 + 4) \times ((4/4 + 4)^4 + 4)) - 4 \\
&:= 5 + ((55 \times (5 \times 5 + 5)) + (5/5 + 5)^5) \\
&:= ((6 + 6) \times (66 \times (6 + 6) - 6)) - 6/6 \\
&:= ((7/7 + 77) \times (((7 + 7)/7)^7 - 7)) - 7 \\
&:= 8 + ((8/8 + 8) \times (8888/8 - 8 \times 8)) \\
&:= 9 + ((9 \times (999 - 9)) + ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9432 &:= ((11 \times (1 + 11)) - 1) \times ((1 + 11)^{1+1}/(1 + 1)) \\
&:= 2 \times ((2 \times (2 \times 22 + 2)^2) + 22^2) \\
&:= (3^3 - 3) \times ((33 \times (3 \times 3 + 3)) - 3) \\
&:= 4 + (4 \times (((4 - 4/4) + 4)^4) - 44) \\
&:= 5 + (((5 - (5 + 5)/5) \times (5^5 - 5/5)) + 55) \\
&:= (6 + 6) \times (66 \times (6 + 6) - 6) \\
&:= (77 + 7)/7 \times (((7 + 7)/7) + 777) + 7 \\
&:= 88 + ((8 + 8) \times (8 \times (8 \times 8 + 8) + 8)) \\
&:= 9999 + (9 \times ((9 - 9 \times 9) + 9))
\end{aligned}$$

- 9433 := $1 + (((11 \times (1 + 11)) - 1) \times ((1 + 11)^{1+1} / (1 + 1)))$
:= $2 + (((2 \times 2 \times (22 + 2) + 2/2)^2) + 22)$
:= $3/3 + ((3^3 - 3) \times ((33 \times (3 \times 3 + 3)) - 3))$
:= $4 + ((4 \times (((4 - 4/4) + 4)^4) - 44) + 4/4)$
:= $55 + ((5 - (5 + 5)/5) \times (5^5 + 5/5))$
:= $6/6 + ((6 + 6) \times (66 \times (6 + 6) - 6))$
:= $(777/7 \times (7/7 + 77 + 7)) - (7 + 7)/7$
:= $8 + (((((8/8 + 88) + 8)^{(8+8)/8}) + 8) + 8)$
:= $9/9 + ((9 \times ((9 - 9 \times 9) + 9)) + 9999)$
- 9434 := $(111 \times (111 - ((1 + 1) \times (1 + 1 + 11)))) - 1$
:= $2 + (((2 \times (2 \times 22 + 2))^2) + 2 \times 22^2)$
:= $3 + ((3^3 \times (3 \times 3 \times 33 + 3)) + (33/3)^3)$
:= $(4 + 4)/4 \times (((4/4 + 4)^4 - 4) + (4 + 4)^4)$
:= $((5 + 5 + 5) \times ((5^5 - 5)/5 + 5)) - 5/5$
:= $(6 + 6)/6 + ((6 + 6) \times (66 \times (6 + 6) - 6))$
:= $(777/7 \times (7/7 + 77 + 7)) - 7/7$
:= $(8/8 + 88) \times (((8 + 8)/8 + 88) + 8) + 8$
:= $((9 \times 9 - 9/9) + 9) \times ((99 - ((9 + 9)/9)) + 9)$
- 9435 := $111 \times (111 - ((1 + 1) \times (1 + 1 + 11)))$
:= $222/2 + (222 \times ((2 \times 22) - 2))$
:= $3 + ((3^3 - 3) \times ((33 \times (3 \times 3 + 3)) - 3))$
:= $(44/4 + 4) \times ((4/4 + 4)^4 + 4)$
:= $(5 + 5 + 5) \times ((5^5 - 5)/5 + 5)$
:= $(6 - 6/6) \times ((66/6 + 6) \times 666/6)$
:= $777/7 \times (7/7 + 77 + 7)$
:= $888/8 \times ((88 - 88/8) + 8)$
:= $((9 - 9/9) + 9) \times (9999 - 9)/(9 + 9)$
- 9436 := $1 + (111 \times (111 - ((1 + 1) \times (1 + 1 + 11))))$
:= $222 + ((2 \times 2 \times (22 + 2))^2 - 2)$
:= $(3^3 + 3/3) \times ((333 + 3/3) + 3)$
:= $((44 - 4) \times (4^4 - (4 \times 4 + 4))) - 4$
:= $5/5 + ((5 + 5 + 5) \times ((5^5 - 5)/5 + 5))$
:= $6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) - ((6 + 6)/6))$
:= $7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) - 77)$
:= $8/8 + (888/8 \times ((88 - 88/8) + 8))$
:= $9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) + 9) + 9$
- 9437 := $(11 \times (11 \times (111 - (11 \times (1 + 1 + 1)))) - 1$
:= $222 + ((2 \times 2 \times (22 + 2))^2 - 2/2)$
:= $(33 \times 33/3 \times (3^3 - 3/3)) - 3/3$
:= $4/4 + (((44 - 4) \times (4^4 - (4 \times 4 + 4))) - 4)$
:= $(5 + 5)/5 + ((5 + 5 + 5) \times ((5^5 - 5)/5 + 5))$
:= $6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) - 6/6)$
:= $((7/7 + 77) \times (((7 + 7)/7)^7 - 7)) - 7/7$
:= $((88/8 + 8 \times 8) \times (8 \times (8 + 8) - 8/8)) - 88$
:= $99 \times 99 + ((9 - 9 \times 9 \times 9)/(9 + 9))$
- 9438 := $11 \times (11 \times (111 - (11 \times (1 + 1 + 1))))$
:= $222 + (2 \times 2 \times (22 + 2))^2$
:= $33 \times 33/3 \times (3^3 - 3/3)$
:= $(444 - 4)/4 + (44 \times (4^4 - 44))$
:= $5 + (((5 - (5 + 5)/5) \times (5^5 + 5/5)) + 55)$
:= $6 + ((6 + 6) \times (66 \times (6 + 6) - 6))$
:= $(7/7 + 77) \times (((7 + 7)/7)^7 - 7)$
:= $((8 + 8)/8) \times (8 \times 8 \times (8 \times 8 + 8) + 888/8)$
:= $99 \times 99 - (99 \times 99/(9 + 9 + 9))$
- 9439 := $1 + (11 \times (11 \times (111 - (11 \times (1 + 1 + 1))))$
:= $2/2 + ((2 \times 2 \times (22 + 2))^2 + 222)$
:= $3 + ((3^3 + 3/3) \times ((333 + 3/3) + 3))$
:= $4 + ((44/4 + 4) \times ((4/4 + 4)^4 + 4))$
:= $((5 + 5 + 5) \times (5^5/5 + 5)) - 55/5$
:= $6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) + 6/6)$
:= $7/7 + ((7/7 + 77) \times (((7 + 7)/7)^7 - 7))$
:= $((88 - 8) \times ((888 - 8)/8 + 8)) - 8/8$
:= $9 + ((9/9 + 9) \times (((9 + 9)/9)^{9/9+9} - 9 \times 9))$
- 9440 := $1 + (1 + (11 \times (11 \times (111 - (11 \times (1 + 1 + 1))))))$
:= $2 + ((2 \times 2 \times (22 + 2))^2 + 222)$
:= $(33 - 3/3) \times ((3 \times 3 \times 33 - 3) + 3/3)$
:= $(44 - 4) \times (4^4 - (4 \times 4 + 4))$
:= $5 + ((5 + 5 + 5) \times ((5^5 - 5)/5 + 5))$
:= $66 \times (6 + 6) \times (6 + 6) - ((6 + 6)/6)^6$
:= $(777/7 + 7) \times ((7 + 7 + 7)/7 + 77)$
:= $(88 - 8) \times ((888 - 8)/8 + 8)$
:= $(9 \times 9 - 9/9) \times ((9/9 + 99 + 9) + 9)$
- 9441 := $(1 + 1 + 1) \times (11 + ((1 + 111)/(1 + 1))^{1+1})$
:= $2 + (((2 \times 2 \times (22 + 2))^2 + 222) + 2/2)$
:= $3 + (33 \times 33/3 \times (3^3 - 3/3))$
:= $4/4 + ((44 - 4) \times (4^4 - (4 \times 4 + 4)))$
:= $(5 - 5/5 + 5) \times ((5 - 5/5)^5 + 5 \times 5)$
:= $((6 \times 6/(6 + 6))^6) + 66 \times (66 + 66)$
:= $7 + ((777/7 \times (7/7 + 77 + 7)) - 7/7)$
:= $8/8 + ((88 - 8) \times ((888 - 8)/8 + 8))$
:= $9 + ((9 \times ((9 - 9 \times 9) + 9)) + 9999)$
- 9442 := $1 + (1 + 1 + 1) \times (11 + ((1 + 111)/(1 + 1))^{1+1})$
:= $2 + (((2 \times 2 \times (22 + 2))^2 + 222) + 2)$
:= $33 + (((3/3 + 3)^3) + 33)^{3-3/3}$
:= $(4 + 4)/4 \times ((4/4 + 4)^4 + (4 + 4)^4)$
:= $55 + ((5 - (5 + 5)/5) \times ((5^5 - 5/5) + 5))$
:= $((66 - 6)/6) + ((6 + 6) \times (66 \times (6 + 6) - 6))$
:= $7 + (777/7 \times (7/7 + 77 + 7))$
:= $8 + ((8/8 + 88) \times (((8 + 8)/8 + 88) + 8) + 8)$
:= $((99 - 9/9)^{(9+9)/9}) - 9 \times (9 + 9)$
- 9443 := $((11 \times (((1 + 11)^{1+1+1}) - 11)) - 1)/(1 + 1)$
:= $(22/2)^2 + ((222 \times ((2 \times 22) - 2)) - 2)$
:= $(3/3 + 3 + 3) \times ((33/3)^3 + (3 \times (3 + 3)))$
:= $4 + (((44/4 + 4) \times ((4/4 + 4)^4 + 4)) + 4)$
:= $5^5 + ((5 \times 5 + 5/5) \times ((5 - (5 + 5)/5)^5))$
:= $66/6 + ((6 + 6) \times (66 \times (6 + 6) - 6))$
:= $((77 - 7) \times (((7 + 7)/7)^7 + 7)) - 7$
:= $8 + (888/8 \times ((88 - 88/8) + 8))$
:= $9999 - ((9999 + 9)/(9 + 9))$
- 9444 := $(1 + 1 + 1) \times (1111 + ((1 + 1)^{11} - 11))$
:= $2^{22/2} + ((2 \times 2 \times 22 - 2)^2)$
:= $(3 + 3) \times (3 \times 3 \times 3^3 + (33/3)^3)$
:= $4 + ((44 - 4) \times (4^4 - (4 \times 4 + 4)))$
:= $((5 + 5)^{5-5/5}) - (555 + 5/5)$
:= $6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) + 6)$
:= $7/7 + (((77 - 7) \times (((7 + 7)/7)^7 + 7)) - 7)$
:= $8888 + ((8888 + 8)/(8 + 8))$
:= $9999 + ((9 - 9999)/(9 + 9))$
- 9445 := $1 + ((1 + 1 + 1) \times (1111 + ((1 + 1)^{11} - 11)))$
:= $(22/2)^2 + (222 \times ((2 \times 22) - 2))$
:= $3 + (((3/3 + 3)^3) + 33)^{3-3/3} + 33$
:= $4 + (((44 - 4) \times (4^4 - (4 \times 4 + 4))) + 4/4)$
:= $((5 + 5)^{5-5/5}) - 555$
:= $6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) + 6/6) + 6$
:= $7 + ((7/7 + 77) \times (((7 + 7)/7)^7 - 7))$
:= $8888 + (8 \times (8 \times 8 + 8) - (88/8 + 8))$
:= $9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) + 9) + 9 + 9$
- 9446 := $(111 \times (1 + 11^{1+1})) - ((1 + 1)^{1+11})$
:= $2 + (((2 \times 2 \times 22 - 2)^2) + 2^{22/2})$
:= $3 + ((3/3 + 3 + 3) \times ((33/3)^3 + (3 \times (3 + 3))))$
:= $4 + ((4 + 4)/4 \times ((4/4 + 4)^4 + (4 + 4)^4))$
:= $5/5 + (((5 + 5)^{5-5/5}) - 555)$
:= $6 + (66 \times (6 + 6) \times (6 + 6) - ((6 + 6)/6)^6)$
:= $7 + (((7/7 + 77) \times (((7 + 7)/7)^7 - 7)) + 7/7)$
:= $8888 + ((8/8 + 8) \times (8 \times 8 - ((8 + 8)/8)))$
:= $9 + (((9 - 9 \times 9 \times 9)/(9 + 9)) + 99 \times 99)$
- 9447 := $1 + ((111 \times (1 + 11^{1+1})) - ((1 + 1)^{1+11}))$
:= $2 + ((222 \times ((2 \times 22) - 2)) + (22/2)^2)$
:= $(3 \times (3 \times (3^3 \times (33 + 3 + 3) - 3))) - 3$
:= $4 + (((44/4 + 4) \times ((4/4 + 4)^4 + 4)) + 4) + 4$
:= $(5 - (5 + 5)/5) \times ((5^5 - 5/5) + 5 \times 5)$
:= $(66 + 6/6) \times ((666/6 - 6) + 6 \times 6)$
:= $7 + ((777/7 + 7) \times ((7 + 7 + 7)/7 + 77))$
:= $8 + (((88 - 8) \times ((888 - 8)/8 + 8)) - 8/8)$
:= $(9 \times ((9 \times (99 + 9 + 9)) + 9)) - 999/9$

$$\begin{aligned}
\blacktriangleright 9448 &:= ((11 \times ((1+11)^{1+1+1})) - (1+111))/(1+1) \\
&:= (((2 \times 22) - 2) \times ((222 + 2/2) + 2)) - 2 \\
&:= 3/3 + ((3 \times (3 \times (3^3 \times (33 + 3 + 3) - 3))) - 3) \\
&:= 4 + (((44 - 4) \times (4^4 - (4 \times 4 + 4))) + 4) \\
&:= ((5 + 5 + 5) \times (5^5/5 + 5)) - (5 + 5)/5 \\
&:= 6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) + ((66 - 6)/6)) \\
&:= (7/7 + 7) \times ((7777/7 - 7) + 77) \\
&:= 8 + ((88 - 8) \times ((888 - 8)/8 + 8)) \\
&:= (9 \times (9 \times (99 + 9 + 9))) - (99/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9449 &:= 11 \times (1 + (11 \times (111 - (11 \times (1 + 1 + 1)))))) \\
&:= 222 + ((2 \times 2 \times (22 + 2))^2 + 22/2) \\
&:= 33/3 \times ((33 \times (3^3 - 3/3)) + 3/3) \\
&:= 44/4 \times ((4444/4 - 4^4) + 4) \\
&:= ((5 + 5 + 5) \times (5^5/5 + 5)) - 5/5 \\
&:= 6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) + (66/6)) \\
&:= ((77 - 7) \times (((7 + 7)/7)^7 + 7)) - 7/7 \\
&:= (88 \times (8 \times (8 + 8) - 8)) - 8888/8 \\
&:= 9 + ((9 \times 9 - 9/9) \times ((9/9 + 99 + 9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9450 &:= 1 + (11 \times (1 + (11 \times (111 - (11 \times (1 + 1 + 1)))))) \\
&:= ((2 \times 22) - 2) \times ((222 + 2/2) + 2) \\
&:= 3 \times (3 \times (3^3 \times (33 + 3 + 3) - 3)) \\
&:= (4 + 4)/4 \times (((4/4 + 4)^4 + (4 + 4)^4) + 4) \\
&:= (5 + 5 + 5) \times (5^5/5 + 5) \\
&:= 6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) + 6) + 6 \\
&:= (77 - 7) \times (((7 + 7)/7)^7 + 7) \\
&:= (8/8 - 8 \times 8) \times (((8 + 8)/8) - (8 \times 8 + 88)) \\
&:= (9 \times (9 \times (99 + 9 + 9))) - (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9451 &:= (1 + 1 + 11) \times ((11 - 1 - 1)^{1+1+1} - (1 + 1)) \\
&:= (22/2 + 2) \times (((2/2 + 2)^{2+2+2}) - 2) \\
&:= 3/3 + (3 \times (3 \times (3^3 \times (33 + 3 + 3) - 3))) \\
&:= 4 \times 4 + ((44/4 + 4) \times ((4/4 + 4)^4 + 4)) \\
&:= 5/5 + ((5 + 5 + 5) \times (5^5/5 + 5)) \\
&:= (6/6 + 6 + 6) \times ((66 \times 66 + 6)/6) \\
&:= 7/7 + ((77 - 7) \times (((7 + 7)/7)^7 + 7)) \\
&:= 8 + ((888/8 \times ((88 - 88/8) + 8)) + 8) \\
&:= 9 + (((99 - 9/9)^{(9+9)/9}) - 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9452 &:= 1 + ((1 + 1 + 11) \times ((11 - 1 - 1)^{1+1+1} - (1 + 1))) \\
&:= 2 + (((2 \times 22) - 2) \times ((222 + 2/2) + 2)) \\
&:= 3 + ((33 \times (3 \times 3 \times 3^3 + 3)) + (33/3)^3) \\
&:= 44 + ((44 + 4) \times ((4 \times (44 + 4)) + 4)) \\
&:= (5 + 5)/5 + ((5 + 5 + 5) \times (5^5/5 + 5)) \\
&:= (66/6 + 6) \times (6666 + 6)/(6 + 6) \\
&:= 7 + (((7/7 + 77) \times (((7 + 7)/7)^7 - 7)) + 7) \\
&:= (8/8 + 8 + 8) \times ((8888 + 8)/(8 + 8)) \\
&:= ((9 - 9/9) + 9) \times ((9999 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9453 &:= (1 + (11 + 11)) \times (11 + ((1 + 1) \times (11 - 1))^{1+1}) \\
&:= 2 \times 22 + ((2 \times 2 \times (22 + 2) + 2/2)^2) \\
&:= 3 + (3 \times (3 \times (3^3 \times (33 + 3 + 3) - 3))) \\
&:= 44 + (((4 - 4/4)^4 + 4 \times 4)^{(4+4)/4}) \\
&:= (5 - (5 + 5)/5) \times ((5 \times 5 + 5^5) + 5/5) \\
&:= 6 + ((66 + 6/6) \times ((666/6 - 6) + 6 \times 6)) \\
&:= (7 + 7 + 7)/7 + ((77 - 7) \times (((7 + 7)/7)^7 + 7)) \\
&:= 8888 + (8 \times (8 \times 8 + 8) - 88/8) \\
&:= 9 + (((9 - 9999)/(9 + 9)) + 9999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9454 &:= ((11 \times (1 + ((1 + 11)^{1+1+1}))) - 111)/(1 + 1) \\
&:= (22^2 \times (22 - 2)) - (222 + 2 + 2) \\
&:= 3 + ((3 \times (3 \times (3^3 \times (33 + 3 + 3) - 3))) + 3/3) \\
&:= 4 + ((4 + 4)/4 \times (((4/4 + 4)^4 + (4 + 4)^4) + 4)) \\
&:= 5 + (((5 + 5 + 5) \times (5^5/5 + 5)) - 5/5) \\
&:= ((6 + 6)/6) \times ((6 \times (66 \times (6 + 6) - 6)) + (66/6)) \\
&:= 7 \times 7 + (77/7 \times (((77 \times 77 + 7)/7) + 7)) \\
&:= (8 - 88)/8 + (8888 + 8 \times (8 \times 8 + 8)) \\
&:= 9999 - ((99 \times 99 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9455 &:= ((1 + 11^{1+1})/(1 + 1)) \times (11 + (1 + 11)^{1+1}) \\
&:= 2 + (((2 \times 2 \times (22 + 2) + 2/2)^2) + 2 \times 22) \\
&:= 33 \times (3 + 3) + (((3 \times (3 + 3)) + 3)^3) - (3/3 + 3) \\
&:= (44 - 4) \times (4^4 - 4) - (4/4 + 4)^4 \\
&:= 5 + ((5 + 5 + 5) \times (5^5/5 + 5)) \\
&:= 6 + (((6 + 6) \times (66 \times (6 + 6) - 6)) + (66/6)) + 6 \\
&:= 7 + ((7/7 + 7) \times ((7777/7 - 7) + 77)) \\
&:= 888/8 + ((8 + 8) \times (8 \times (8 \times 8 + 8) + 8)) \\
&:= 9999 + ((9 - 99 \times 99)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9456 &:= (11 \times (11 \times (1 + 111))) - ((1 + 1)^{1+1+1}) \\
&:= (22 + 2) \times ((2 \times ((2^{2+2} - 2)^2)) + 2) \\
&:= 33 \times (3 + 3) + (((3 \times (3 + 3)) + 3)^3) - 3 \\
&:= 4 \times ((44 \times (44 + 4) - 4) + 4^4) \\
&:= 5 + (((5 + 5 + 5) \times (5^5/5 + 5)) + 5/5) \\
&:= 6 \times (6 \times 6 \times (6 \times 6 + 6) + ((6 + 6)/6)^6) \\
&:= (77 + 7)/7 \times (77/7 + 777) \\
&:= 8888 + (8 \times (8 \times 8 + 8) - 8) \\
&:= (9 \times (9 \times (99 + 9 + 9))) - ((99 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9457 &:= 1 + ((11 \times (11 \times (1 + 111))) - ((1 + 1)^{1+1+1})) \\
&:= (22^2 - 2)/2 + (2 \times 2 \times (22 + 2))^2 \\
&:= ((33/3 + 33) \times ((3 + 3)^3 - 3/3)) - 3 \\
&:= 4/4 + (4 \times ((44 \times (44 + 4) - 4) + 4^4)) \\
&:= 5 + (((5 + 5 + 5) \times (5^5/5 + 5)) + ((5 + 5)/5)) \\
&:= 6 + ((6/6 + 6 + 6) \times ((66 \times 66 + 6)/6)) \\
&:= 7 + ((77 - 7) \times (((7 + 7)/7)^7 + 7)) \\
&:= 8/8 + ((8888 - 8) + 8 \times (8 \times 8 + 8)) \\
&:= (9 \times (9 \times (99 + 9 + 9))) - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9458 &:= (1 + 1) \times (((11 - 1) \times ((11 + 11)^{1+1})) - 111) \\
&:= (22^2 \times (22 - 2)) - 222 \\
&:= 33 \times (3 + 3) + (((3 \times (3 + 3)) + 3)^3) - 3/3 \\
&:= 4 \times 4 + ((4 + 4)/4 \times ((4/4 + 4)^4 + (4 + 4)^4)) \\
&:= 5 + ((5 - (5 + 5)/5) \times ((5 \times 5 + 5^5) + 5/5)) \\
&:= 6 + ((66/6 + 6) \times (6666 + 6)/(6 + 6)) \\
&:= 7 \times 7 + ((7 \times (7 + 7) - 7/7)^{(7+7)/7}) \\
&:= (888/8 \times (88 - ((8 + 8)/8))) - 88 \\
&:= (9 \times (9 \times (99 + 9 + 9))) - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9459 &:= ((1 + 1) \times (11 \times (((11 + (11 - 1))^{1+1}) - 11))) - 1 \\
&:= 2/2 + ((22^2 \times (22 - 2)) - 222) \\
&:= 33 \times (3 + 3) + (((3 \times (3 + 3)) + 3)^3) \\
&:= 4 + ((44 - 4) \times (4^4 - 4) - (4/4 + 4)^4) \\
&:= 5 + (((5 + 5 + 5) \times (5^5/5 + 5)) - 5/5) + 5 \\
&:= 66 + (66 \times (6 + 6) \times (6 + 6) - 666/6) \\
&:= 7 + (((7/7 + 77) \times (((7 + 7)/7)^7 - 7)) + 7) + 7 \\
&:= (8/8 + 8) \times (((8 \times 8 \times (8 + 8) + (88/8)) + 8) + 8) \\
&:= (9 \times (9 \times (99 + 9 + 9))) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9460 &:= (1 + 1) \times (11 \times (((11 + (11 - 1))^{1+1}) - 11)) \\
&:= (2 - 22) \times (22/2 - 22^2) \\
&:= (33/3 + 33) \times ((3 + 3)^3 - 3/3) \\
&:= 44 \times ((4^4 - (44 + 4/4)) + 4) \\
&:= 5 + (((5 + 5 + 5) \times (5^5/5 + 5)) + 5) \\
&:= (6 - ((6 + 6)/6)) \times (6 \times 6 \times 66 - (66/6)) \\
&:= 77/7 \times (((77 \times 77 - 7)/7) + 7) + 7 \\
&:= (88 - ((8 + 8)/8)) \times (888 - 8)/8 \\
&:= 9/9 + ((9 \times (9 \times (99 + 9 + 9))) - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9461 &:= ((111 \times (1 + 1)^{11-1})/(1 + 11)) - 11 \\
&:= 2/2 + ((2 - 22) \times (22/2 - 22^2)) \\
&:= ((3^3 - 3/3) \times ((33 \times 33 + 3)/3)) - 3 \\
&:= 4/4 + (44 \times ((4^4 - (44 + 4/4)) + 4)) \\
&:= 55/5 + ((5 + 5 + 5) \times (5^5/5 + 5)) \\
&:= 66 \times (6 + 6) \times (6 + 6) - (6 \times 6 + 6/6 + 6) \\
&:= 77/7 + ((77 - 7) \times (((7 + 7)/7)^7 + 7)) \\
&:= ((8 + 8) \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - 88/8 \\
&:= (9 + 9)/9 + ((9 \times (9 \times (99 + 9 + 9))) - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9462 &:= 1 + (((111 \times (1 + 1)^{11-1})/(1 + 11)) - 11) \\
&:= 2 + ((2 - 22) \times (22/2 - 22^2)) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) + 33 \times (3 + 3) \\
&:= 4^4 + ((4^4 \times (4 \times (4 + 4) + 4)) + (4 - 44)/4) \\
&:= ((55 + 5)/5) + ((5 + 5 + 5) \times (5^5/5 + 5)) \\
&:= 66 \times (6 + 6) \times (6 + 6) - (6 \times 6 + 6) \\
&:= (77 - 7/7 + 7) \times (((7 + 7)/7)^7 - (7 + 7)) \\
&:= 8888 + (8 \times (8 \times 8 + 8) - (8 + 8)/8) \\
&:= (9 \times (9 - 9 \times 9)) + (999/9 + 9999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9463 &:= ((1+1+11) \times ((11-1-1)^{1+1+1} - 1)) - 1 \\
&:= ((2^{2+2} - 2) \times ((22+2+2)^2)) - 2/2 \\
&:= 3 + ((33/3+33) \times ((3+3)^3 - 3/3)) \\
&:= 4^4 + ((4/4+4+4) \times (4 \times 4^4 - 4/4)) \\
&:= 55 + ((5 - (5+5)/5) \times (55/5 + 5^5)) \\
&:= 6/6 + (66 \times (6+6) \times (6+6) - (6 \times 6 + 6)) \\
&:= 7 + ((77+7)/7 \times (77/7 + 777)) \\
&:= 8888 + (8 \times (8 \times 8 + 8) - 8/8) \\
&:= 999 + (((99/9) + 9 \times 9)^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9464 &:= (1+1+11) \times ((11-1-1)^{1+1+1} - 1) \\
&:= (2^{2+2} - 2) \times ((22+2+2)^2) \\
&:= (3^3 - 3/3) \times ((33 \times 33 + 3)/3) \\
&:= 4 + (44 \times ((4^4 - (44+4/4)) + 4)) \\
&:= ((5+5+5) \times ((5^5 + 5)/5 + 5)) - 5/5 \\
&:= (6/6 + 6 + 6) \times (((6 \times 6/(6+6))^6) - 6/6) \\
&:= (7/7 + 7) \times ((7+7) \times (77+7) + 7) \\
&:= 8888 + 8 \times (8 \times 8 + 8) \\
&:= ((99+9+9)/9) \times (9 \times 9 \times 9 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9465 &:= 1 + ((1+1+11) \times ((11-1-1)^{1+1+1} - 1)) \\
&:= 2/2 + ((2^{2+2} - 2) \times ((22+2+2)^2)) \\
&:= (3 \times (3 \times 33 \times 33)) - 333 - 3 \\
&:= (4/4 + 4) \times ((44 \times (44 - 4/4)) + 4/4) \\
&:= (5+5+5) \times ((5^5 + 5)/5 + 5) \\
&:= (6+6) \times (66 \times (6+6) + 6) - 666/6 \\
&:= 7 + (((7 \times (7+7) - 7/7)^{(7+7)/7}) + 7 \times 7) \\
&:= 8/8 + (8888 + 8 \times (8 \times 8 + 8)) \\
&:= (9 \times (9 \times (99+9+9))) - (99+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9466 &:= ((1+1+1) \times (1111 + (1+1)^{11})) - 11 \\
&:= 2 + ((2^{2+2} - 2) \times ((22+2+2)^2)) \\
&:= (3+3)^3 + (((3 \times (3+3)) + 3)^3) - 33/3 \\
&:= 4^4 + ((4^4 \times (4 \times (4+4) + 4)) - ((4+4)/4 + 4)) \\
&:= 5/5 + ((5+5+5) \times ((5^5 + 5)/5 + 5)) \\
&:= 66 \times (6+6) \times (6+6) - ((6+6)/6 + 6 \times 6) \\
&:= (7+7)/7 + ((7/7+7) \times ((7+7) \times (77+7) + 7)) \\
&:= (8+8)/8 + (8888 + 8 \times (8 \times 8 + 8)) \\
&:= (9 \times (9 \times (99+9+9))) - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9467 &:= 1 + (((1+1+1) \times (1111 + (1+1)^{11})) - 11) \\
&:= 2 + (((2^{2+2} - 2) \times ((22+2+2)^2)) + 2/2) \\
&:= 3 + ((3^3 - 3/3) \times ((33 \times 33 + 3)/3)) \\
&:= 4^4 + ((4^4 \times (4 \times (4+4) + 4)) - (4/4 + 4)) \\
&:= (5+5)/5 + ((5+5+5) \times ((5^5 + 5)/5 + 5)) \\
&:= 66 \times (6+6) \times (6+6) - (6 \times 6 + 6/6) \\
&:= 7 + (77/7 \times (((77 \times 77 - 7)/7) + 7) + 7) \\
&:= 88/8 + ((8888 - 8) + 8 \times (8 \times 8 + 8)) \\
&:= (9 \times (9 \times (99+9+9))) - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9468 &:= (1+1+1) \times ((1+11) \times (((1+1) \times (11 \times (1+11)))) - 1) \\
&:= (2+2+2) \times ((2 \times (22-2))^2 - 22) \\
&:= 3 \times ((3 \times 3^3 \times (33+3+3)) - 3) \\
&:= 4^4 + ((4^4 \times (4 \times (4+4) + 4)) - 4) \\
&:= (5 - (5+5)/5) \times (((5 \times 5 + 5^5) + 5/5) + 5) \\
&:= 6 \times (6 \times 6 \times (6 \times 6 + 6) + 66) \\
&:= (77+7)/7 \times ((77+7)/7 + 777) \\
&:= 8 + ((88 - ((8+8)/8)) \times (888 - 8)/8) \\
&:= (9 \times (9 \times (99+9+9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9469 &:= ((111 \times (1+1)^{11-1})/(1+11)) - 1 - 1 - 1 \\
&:= 2/2 + ((2+2+2) \times ((2 \times (22-2))^2 - 22)) \\
&:= 3/3 + (3 \times ((3 \times 3^3 \times (33+3+3)) - 3)) \\
&:= 4/4 + (((4^4 \times (4 \times (4+4) + 4)) - 4) + 4^4) \\
&:= 5 + (((5+5+5) \times ((5^5 + 5)/5 + 5)) - 5/5) \\
&:= 6/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 66)) \\
&:= (7 \times (7 \times (7+7) \times (7+7))) - (((7+7)/7)^7 + 7) \\
&:= 8 + (((8+8) \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - (88/8)) \\
&:= 9/9 + ((9 \times (9 \times (99+9+9))) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9470 &:= ((111 \times (1+1)^{11-1})/(1+11)) - 1 - 1 \\
&:= 2 + ((2+2+2) \times ((2 \times (22-2))^2 - 22)) \\
&:= (3 \times (33 \times (3 \times 33 - 3))) - 3/3 - 33 \\
&:= 4^4 + ((4^4 \times (4 \times (4+4) + 4)) - (4+4)/4) \\
&:= 5 + ((5+5+5) \times ((5^5 + 5)/5 + 5)) \\
&:= (6+6)/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 66)) \\
&:= (77 \times ((777 + 77 + 7)/7)) - 7/7 \\
&:= ((8+8) \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - (8+8)/8 \\
&:= (9+9)/9 + ((9 \times (9 \times (99+9+9))) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9471 &:= ((111 \times (1+1)^{11-1})/(1+11)) - 1 \\
&:= (22/2 + 22) \times (((22+2)^2) - 2)/2 \\
&:= 33 \times (3 \times (3 \times 33 - 3) - 3/3) \\
&:= 4^4 + ((4^4 \times (4 \times (4+4) + 4)) - 4/4) \\
&:= (5 - (5+5)/5) \times (((5+5)/5)^5 + 5^5) \\
&:= ((6/6 + 6 + 6) \times ((6 \times 6/(6+6))^6) - 6) \\
&:= 77 \times ((777 + 77 + 7)/7) \\
&:= ((8+8) \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - 8/8 \\
&:= 99/9 \times (9 \times (99+9) - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9472 &:= (111 \times (1+1)^{11-1})/(1+11) \\
&:= 2^{2+2} \times (((22+2)^2) + 2^{2+2}) \\
&:= (33 - 3/3) \times (3 \times 3 \times 33 - 3/3) \\
&:= 4 \times (44 \times (44 + 4) + 4^4) \\
&:= ((5+5)/5)^5 \times ((5 \times (55+5) - 5) + 5/5) \\
&:= (6 \times 6 + 6/6) \times (((6+6)/6)^{6+(6+6)/6}) \\
&:= (((7+7)/7)^7 \times (77 - ((7+7+7)/7))) \\
&:= (8+8) \times ((8 \times (8 \times 8 + 8) + 8) + 8) \\
&:= ((9-99)/(9+9)) + (9 \times (9 \times (99+9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9473 &:= 1 + ((111 \times (1+1)^{11-1})/(1+11)) \\
&:= 2 + ((22/2 + 22) \times (((22+2)^2) - 2)/2) \\
&:= (3+3)^3 + (((3 \times (3+3)) + 3)^3) - (3/3 + 3) \\
&:= 4/4 + ((4^4 \times (4 \times (4+4) + 4)) + 4^4) \\
&:= 5 + ((5 - (5+5)/5) \times (((5 \times 5 + 5^5) + 5/5) + 5)) \\
&:= 6 + (66 \times (6+6) \times (6+6) - (6 \times 6 + 6/6)) \\
&:= 7/7 + (((7+7)/7)^7 \times (77 - ((7+7+7)/7))) \\
&:= 8/8 + ((8+8) \times ((8 \times (8 \times 8 + 8) + 8) + 8)) \\
&:= 9 + (((99+9+9)/9) \times (9 \times 9 \times 9 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9474 &:= (1+1+1) \times (1111 + ((1+1)^{11} - 1)) \\
&:= 2 + ((2 \times 2 \times (22+2))^2 + 2^{2 \times (2+2)}) \\
&:= (3+3)^3 + (((3 \times (3+3)) + 3)^3) - 3 \\
&:= 4^4 + ((4^4 \times (4 \times (4+4) + 4)) + (4+4)/4) \\
&:= (5/5 + 5) \times ((5 - 5/5)^5 + 555) \\
&:= 6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 66)) \\
&:= (7 - 7/7) \times (((7+7) \times (777+7) + 77)/7) \\
&:= (8+8)/8 + ((8+8) \times ((8 \times (8 \times 8 + 8) + 8) + 8)) \\
&:= (9 \times (9 \times (99+9+9))) - (9+9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9475 &:= 1 + ((1+1+1) \times (1111 + ((1+1)^{11} - 1))) \\
&:= ((22/2 + 2) \times ((2/2 + 2)^{2+2+2})) - 2 \\
&:= 3 + ((33 - 3/3) \times (3 \times 3 \times 33 - 3/3)) \\
&:= 4 + (((4^4 \times (4 \times (4+4) + 4)) - 4/4) + 4^4) \\
&:= 5 \times ((5 \times ((5 \times (5 \times (5+5+5))) + 5)) - 5) \\
&:= 6 + ((6 \times (6 \times 6 \times (6 \times 6 + 6) + 66)) + 6/6) \\
&:= 7 + ((77+7)/7 \times ((77+7)/7 + 777)) \\
&:= 88/8 + (8888 + 8 \times (8 \times 8 + 8)) \\
&:= (9 \times (9 \times (99+9+9))) - (9+9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9476 &:= ((1+1+1) \times (1111 + (1+1)^{11})) - 1 \\
&:= (2 \times 22 + 2) \times (222 - 2^{2+2}) \\
&:= (3+3)^3 + (((3 \times (3+3)) + 3)^3) - 3/3 \\
&:= 4 + ((4^4 \times (4 \times (4+4) + 4)) + 4^4) \\
&:= 5 + ((5 - (5+5)/5) \times (((5+5)/5)^5 + 5^5)) \\
&:= (6 - ((6+6)/6)) \times (6 \times 6 \times 66 - (6/6 + 6)) \\
&:= (7 \times (7 \times (7+7) \times (7+7))) - ((7+7)/7)^7 \\
&:= (888/8 - 8) \times (8 \times 8/(8+8) + 88) \\
&:= (9 \times (9 \times (99+9+9))) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9477 &:= (1+1+1) \times (1111 + (1+1)^{11}) \\
&:= (22/2 + 2) \times ((2/2 + 2)^{2+2+2}) \\
&:= 3 \times (3 \times 3^3 \times (33+3+3)) \\
&:= 4 + (((4^4 \times (4 \times (4+4) + 4)) + 4^4) + 4/4) \\
&:= ((5 - (5+5)/5)^5) \times (55 - (55/5 + 5)) \\
&:= (6/6 + 6 + 6) \times ((6 \times 6/(6+6))^6) \\
&:= (7 - 7/7 + 7) \times ((777 - 7 \times 7) + 7/7) \\
&:= (8 - (8/8 + 88)) \times (88/8 - 8 \times (8+8)) \\
&:= 9 \times (9 \times (99+9+9))
\end{aligned}$$

- 9478 := $1 + ((1 + 1 + 1) \times (1111 + (1 + 1)^{11}))$
:= $2 + ((2 \times 22 + 2) \times (222 - 2^{2+2}))$
:= $3/3 + (((3 \times (3 + 3)) + 3)^3) + (3 + 3)^3$
:= $4 + (((4^4 \times (4 \times (4 + 4) + 4)) + (4 + 4)/4) + 4^4)$
:= $5 \times 5 + ((5 - (5 + 5)/5) \times ((5 \times 5 + 5^5) + 5/5))$
:= $6/6 + ((6/6 + 6 + 6) \times ((6 \times 6/(6 + 6))^6))$
:= $7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7) - 77$
:= $8 + (((8 + 8) \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - ((8 + 8)/8))$
:= $9/9 + (9 \times (9 \times (99 + 9 + 9)))$
- 9479 := $1 + (1 + ((1 + 1 + 1) \times (1111 + (1 + 1)^{11})))$
:= $2 + ((22/2 + 2) \times ((2/2 + 2)^{2+2+2}))$
:= $3 + (((((3 \times (3 + 3)) + 3)^3) - 3/3) + (3 + 3)^3)$
:= $44 + ((44/4 + 4) \times ((4/4 + 4)^4 + 4))$
:= $5 + ((5/5 + 5) \times ((5 - 5/5)^5 + 555))$
:= $66/6 + (6 \times (6 \times 6 \times (6 \times 6 + 6) + 66))$
:= $7 + (((7 + 7)/7)^7 \times (77 - ((7 + 7 + 7)/7)))$
:= $8 + (((8 + 8) \times ((8 \times (8 \times 8 + 8) + 8) + 8)) - 8/8)$
:= $(9 + 9)/9 + (9 \times (9 \times (99 + 9 + 9)))$
- 9480 := $(1 + 1 + 1) \times (1 + (1111 + (1 + 1)^{11}))$
:= $(2 - 22) \times ((2 \times (2 + 2) - 22^2) + 2)$
:= $3 + (((3 \times (3 + 3)) + 3)^3) + (3 + 3)^3$
:= $4 + (((4^4 \times (4 \times (4 + 4) + 4)) + 4^4) + 4)$
:= $(5 + 5 + 5) \times ((5^5 + 5 + 5)/5 + 5)$
:= $(6 + 6) \times (66 \times (6 + 6) - ((6 + 6)/6))$
:= $(77 + 7)/7 \times (((777 - 7/7) + 7) + 7)$
:= $8 + ((8 + 8) \times ((8 \times (8 \times 8 + 8) + 8) + 8))$
:= $((9 + 9 + 9)/9) + (9 \times (9 \times (99 + 9 + 9)))$
- 9481 := $1 + ((1 + 1 + 1) \times (1 + (1111 + (1 + 1)^{11})))$
:= $222 + (((22 - 2/2)^{2/2+2}) - 2)$
:= $3 + (((((3 \times (3 + 3)) + 3)^3) + (3 + 3)^3) + 3/3)$
:= $4^4 + ((4/4 + 4 + 4) \times (4 \times 4^4 + 4/4))$
:= $55 + ((55 \times (5 \times 5 + 5)) + (5/5 + 5)^5)$
:= $6/6 + ((6 + 6) \times (66 \times (6 + 6) - ((6 + 6)/6)))$
:= $((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) - (77/7 + 7 + 7)$
:= $8 + (((8 + 8) \times ((8 \times (8 \times 8 + 8) + 8) + 8)) + 8/8)$
:= $9 \times 9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) - 9)$
- 9482 := $11 \times (((1 + 11)^{1+1+1})/(1 + 1)) - (1 + 1)$
:= $22 \times (2 \times 222 - (22/2 + 2))$
:= $3 + (((((3 \times (3 + 3)) + 3)^3) - 3/3) + (3 + 3)^3) + 3$
:= $4^4 + ((4^4 \times (4 \times (4 + 4) + 4)) + (44 - 4)/4)$
:= $((5 + 5)/5)^5 + ((5 + 5 + 5) \times (5^5/5 + 5))$
:= $66/6 \times ((6 \times (6 + 6) \times (6 + 6)) - ((6 + 6)/6))$
:= $77/7 \times (((77 \times 77 + 7)/7) + 7) + 7$
:= $(888/8 \times (88 - ((8 + 8)/8))) - 8 \times 8$
:= $99/9 \times (9 \times 99 - (99/9 + 9 + 9))$
- 9483 := $1 + (11 \times (((1 + 11)^{1+1+1})/(1 + 1)) - (1 + 1))$
:= $222 + ((22 - 2/2)^{2/2+2})$
:= $3 + (((((3 \times (3 + 3)) + 3)^3) + (3 + 3)^3) + 3)$
:= $4^4 + ((4^4 \times (4 \times (4 + 4) + 4)) + 44/4)$
:= $5^5 + ((5 + 5)/5 \times ((55 - 5/5) + 5^5))$
:= $6 + ((6/6 + 6 + 6) \times ((6 \times 6/(6 + 6))^6))$
:= $7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - ((7 + 7)/7)^7)$
:= $(8/8 - 88) \times (((8 - 888) + 8)/8)$
:= $9 + ((9 \times (9 \times (99 + 9 + 9))) - ((9 + 9 + 9)/9))$
- 9484 := $1 + (1 + (11 \times (((1 + 11)^{1+1+1})/(1 + 1)) - (1 + 1)))$
:= $2 + (22 \times (2 \times 222 - (22/2 + 2)))$
:= $3 \times 3333 - (((3 - 3/3)^{3 \times 3}) + 3)$
:= $44 + ((44 - 4) \times (4^4 - (4 \times 4 + 4)))$
:= $5^5 + (((5 + 5) \times ((55 + 5^5)/5)) - 5/5)$
:= $(6 - ((6 + 6)/6)) \times ((6 \times 6 \times 66 - 6) + 6/6)$
:= $7 \times 7 + (777/7 \times (7/7 + 77 + 7))$
:= $8 + ((888/8 - 8) \times (8 \times 8/(8 + 8) + 88))$
:= $9 + ((9 \times (9 \times (99 + 9 + 9))) - ((9 + 9)/9))$
- 9485 := $11 + ((1 + 1 + 1) \times (1111 + ((1 + 1)^{11} - 1)))$
:= $2 + (((22 - 2/2)^{2/2+2}) + 222)$
:= $(3/3 + 3 + 3) \times (((33/3)^3 - 3) + 3^3)$
:= $4 + (((4/4 + 4 + 4) \times (4 \times 4^4 + 4/4)) + 4^4)$
:= $5^5 + ((5 + 5) \times ((55 + 5^5)/5))$
:= $66 \times (6 + 6) \times (6 + 6) - ((6/6 + 6 + 6) + 6)$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - 77)$
:= $8 + ((8 - (8/8 + 88)) \times (88/8 - 8 \times (8 + 8)))$
:= $9 + ((9 \times (9 \times (99 + 9 + 9))) - 9/9)$
- 9486 := $(1 + 1 + 1) \times (1 + (1 + (1 + (1111 + (1 + 1)^{11}))))$
:= $(2^{2+2} + 2) \times ((22 + 2/2)^2 - 2)$
:= $3 \times ((3 \times 3^3 \times (33 + 3 + 3)) + 3)$
:= $44 + ((4 + 4)/4 \times ((4/4 + 4)^4 + (4 + 4)^4))$
:= $5^5 + (((555/5 + 5^5) + 5^5)$
:= $66 \times (6 + 6) \times (6 + 6) - 6 - 6 - 6$
:= $77 + ((7 \times (7 + 7) - 7/7)^{(7+7)/7})$
:= $(8/8 + 8) \times ((88 \times (88 + 8) - (8 + 8))/8)$
:= $9 + (9 \times (9 \times (99 + 9 + 9)))$
- 9487 := $11 + (((1 + 1 + 1) \times (1111 + (1 + 1)^{11})) - 1)$
:= $2 + (((22 - 2/2)^{2/2+2}) + 222) + 2$
:= $3 \times 3333 - ((3 - 3/3)^{3 \times 3})$
:= $(4^4 - 44)/4 \times ((4 \times 44 - 4/4) + 4)$
:= $5^5 + (((555 + 5)/5 + 5^5) + 5^5)$
:= $66 \times (6 + 6) \times (6 + 6) - (66/6 + 6)$
:= $7 \times 7 + ((7/7 + 77) \times (((7 + 7)/7)^7 - 7))$
:= $88 + ((8888 - 8/8) + 8 \times 8 \times 8)$
:= $9999 - ((9 + 9)/9)^9$
- 9488 := $11 + ((1 + 1 + 1) \times (1111 + (1 + 1)^{11}))$
:= $(2 + 2 + 2)^{2+2} + (2^{22/2+2})$
:= $(3 + 3)^3 + (((3 \times (3 + 3)) + 3)^3) + 33/3$
:= $4 \times ((44 \times (44 + 4) + 4^4) + 4)$
:= $(55/5 + 5) \times (5^5/5 - ((5 + 5)/5)^5)$
:= $(6 - 66)/6 + (66 \times (6 + 6) \times (6 + 6) - 6)$
:= $((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) - (77/7 + 7)$
:= $88 + (8888 + 8 \times 8 \times 8)$
:= $99/9 + (9 \times (9 \times (99 + 9 + 9)))$
- 9489 := $((1 + 1 + 11) \times (1 + (11 - 1 - 1)^{1+1+1})) - 1$
:= $((22 + 2) \times (22 - 2)^2) - 222/2$
:= $3 + (3 \times ((3 \times 3^3 \times (33 + 3 + 3)) + 3))$
:= $4/4 + (4 \times ((44 \times (44 + 4) + 4^4) + 4))$
:= $(5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) - 55/5$
:= $6 + (((6/6 + 6 + 6) \times ((6 \times 6/(6 + 6))^6)) + 6)$
:= $7 + (77/7 \times (((77 \times 77 + 7)/7) + 7) + 7)$
:= $8/8 + ((8888 + 8 \times 8 \times 8) + 88)$
:= $(99 + 9)/9 + (9 \times (9 \times (99 + 9 + 9)))$
- 9490 := $(1 + 1 + 11) \times (1 + (11 - 1 - 1)^{1+1+1})$
:= $((2 \times 22) - 2) \times (222 + 2 + 2) - 2$
:= $((3 \times 3 + 3/3) + 3) \times (3^{3+3} + 3/3)$
:= $(4^4 + 4)/4 \times (((4 - 444)/4) + 4^4)$
:= $5 + (((5 + 5) \times ((55 + 5^5)/5)) + 5^5)$
:= $((6 + 6)/6) \times ((6 \times 66 \times (6 + 6)) - (6/6 + 6))$
:= $7 + (((7 \times (7 \times (7 + 7) \times (7 + 7))) - ((7 + 7)/7)^7) + 7)$
:= $((8/8 + 8 \times 8) + 8) \times (8 \times (8 + 8) + ((8 + 8)/8))$
:= $9 \times 9 + ((99 - ((9 + 9)/9))^{(9+9)/9})$
- 9491 := $1 + ((1 + 1 + 11) \times (1 + (11 - 1 - 1)^{1+1+1}))$
:= $((2 \times 22) - 2) \times (222 + 2 + 2) - 2/2$
:= $(3 \times ((33 \times (3 \times 33 - 3)) - 3)) - (3/3 + 3)$
:= $((44/4 + 4) \times (((4/4 + 4)^4 + 4) + 4)) - 4$
:= $5 + (((555/5 + 5^5) + 5^5) + 5^5)$
:= $66 \times (6 + 6) \times (6 + 6) - (6/6 + 6 + 6)$
:= $((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) - (7/7 + 7 + 7)$
:= $8 + ((8/8 - 88) \times (((8 - 888) + 8)/8))$
:= $9 \times 999 + ((9 \times 999 + 9)/(9 + 9))$
- 9492 := $(11 \times (((1 + 11)^{1+1+1})/(1 + 1)) - 1) - 1$
:= $((2 \times 22) - 2) \times (222 + 2 + 2)$
:= $(3^3 + 3/3) \times (333 + 3 + 3)$
:= $4 + (4 \times ((44 \times (44 + 4) + 4^4) + 4))$
:= $5 + (((555 + 5)/5 + 5^5) + 5^5) + 5^5$
:= $(6 + 6) \times (66 \times (6 + 6) - 6/6)$
:= $(7 + 7) \times ((7 \times 7 \times (7 + 7)) - (7/7 + 7))$
:= $((88 + 8)/8) \times ((8 \times 88 - 8/8) + 88)$
:= $9 \times 999 + (((9 + 9)/9)^9) - (99/9)$

$$\begin{aligned}
\blacktriangleright 9493 &:= 11 \times (((1+11)^{1+1+1})/(1+1)) - 1 \\
&:= 2/2 + (((2 \times 22) - 2) \times (222 + 2 + 2)) \\
&:= (3 \times (33 \times (3 \times 33 - 3))) - 33/3 \\
&:= (4 \times (((4 - 4/4) + 4)^4)) - 444/4 \\
&:= 5 + ((55/5 + 5) \times (5^5/5 - ((5+5)/5)^5)) \\
&:= 66 \times (6+6) \times (6+6) - 66/6 \\
&:= (7 \times (7 \times (7+7) \times (7+7))) - 777/7 \\
&:= 88/8 \times (888 - (8/8 + 8 + 8 + 8)) \\
&:= 9 + (((9 \times (9 \times (99 + 9 + 9))) - ((9+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9494 &:= 1 + (11 \times (((1+11)^{1+1+1})/(1+1)) - 1) \\
&:= 2 + (((2 \times 22) - 2) \times (222 + 2 + 2)) \\
&:= (3 \times (33 \times (3 \times 33 - 3))) - 3/3 \\
&:= (4 - 44)/4 + (44 \times (4^4 - 44 + 4)) \\
&:= (5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) - (5/5 + 5) \\
&:= (6 - 66)/6 + 66 \times (6+6) \times (6+6) \\
&:= ((7 - 777)/7) + (7 \times (7 \times (7+7) \times (7+7))) \\
&:= 8 + ((8/8 + 8) \times ((88 \times (88 + 8) - (8 + 8))/8)) \\
&:= 9 \times 999 + (((9+9)/9)^9) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9495 &:= 1 + (1 + (11 \times (((1+11)^{1+1+1})/(1+1)) - 1)) \\
&:= (2 \times 22 + 2/2) \times (222 - 22/2) \\
&:= 3 \times (33 \times (3 \times 33 - 3)) - 3 \\
&:= (44/4 + 4) \times (((4/4 + 4)^4 + 4) + 4) \\
&:= (5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) - 5 \\
&:= (((6 - 66) + 6)/6) + 66 \times (6+6) \times (6+6) \\
&:= ((7+7) \times ((7 \times 7 \times (7+7)) - 7)) - 77/7 \\
&:= (8/8 + 8) \times ((88 \times (88 + 8) - 8)/8) \\
&:= 9 + ((9 \times (9 \times (99 + 9 + 9))) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9496 &:= 1 + (1 + (1 + (11 \times (((1+11)^{1+1+1})/(1+1)) - 1))) \\
&:= (22^{2/2+2}) - (2 \times ((22+2)^2)) \\
&:= 3/3 + (3 \times ((33 \times (3 \times 33 - 3)) - 3)) \\
&:= (44 \times (4^4 - 44 + 4)) - 4 - 4 \\
&:= 5/5 + ((5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) - 5) \\
&:= 66 \times (6+6) \times (6+6) - ((6+6)/6 + 6) \\
&:= (7/7 + 7) \times ((7777 - 7)/7 + 77) \\
&:= ((88 + 8) \times (88/8 + 88)) - 8 \\
&:= 9 + (9999 - ((9+9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9497 &:= (((11 \times (((1+11)^{1+1+1}) - 1)) - 1)/(1+1)) - 1 \\
&:= 2 + ((2 \times 22 + 2/2) \times (222 - 22/2)) \\
&:= 3 + ((3 \times (33 \times (3 \times 33 - 3)) - 3)) - 3/3 \\
&:= 4 + ((4 \times (((4 - 4/4) + 4)^4)) - 444/4) \\
&:= 5 \times 5 \times 5 + ((5 - (5+5)/5) \times (5^5 - 5/5)) \\
&:= 66 \times (6+6) \times (6+6) - 6/6 - 6 \\
&:= ((7+7) \times ((7 \times 7 \times (7+7)) - 7)) - ((7+7)/7 + 7) \\
&:= 88 + (((8/8 + 88) + 8)^{(8+8)/8}) \\
&:= 9 + ((9 \times (9 \times (99 + 9 + 9))) + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9498 &:= ((11 \times (((1+11)^{1+1+1}) - 1)) - 1)/(1+1) \\
&:= ((22 - 2) \times (22^2 + 2)) - 222 \\
&:= 3 + (3 \times ((33 \times (3 \times 33 - 3)) - 3)) \\
&:= (44 \times (4^4 - 44 + 4)) - ((4+4)/4 + 4) \\
&:= (5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) - (5+5)/5 \\
&:= 66 \times (6+6) \times (6+6) - 6 \\
&:= ((7+7) \times ((7 \times 7 \times (7+7)) - 7)) - (7/7 + 7) \\
&:= 8 + (((8/8 + 8 \times 8) + 8) \times (8 \times (8+8) + ((8+8)/8))) \\
&:= 9 + ((9 \times (9 \times (99 + 9 + 9))) + (99+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9499 &:= (1 + (11 \times (((1+11)^{1+1+1}) - 1)))/(1+1) \\
&:= 22 + ((22/2 + 2) \times ((2/2 + 2)^{2+2+2})) \\
&:= 3 + ((3 \times (33 \times (3 \times 33 - 3)) - 3)) + 3/3 \\
&:= (44 \times (4^4 - 44 + 4)) - 4/4 - 4 \\
&:= (5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) - 5/5 \\
&:= 6/6 + (66 \times (6+6) \times (6+6) - 6) \\
&:= ((7+7) \times ((7 \times 7 \times (7+7)) - 7)) - 7 \\
&:= 8 + (((8/8 - 88) \times (((8 - 888) + 8)/8)) + 8) \\
&:= 9 + (((99 - ((9+9)/9))^{(9+9)/9}) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9500 &:= 1 + ((1 + (11 \times (((1+11)^{1+1+1}) - 1)))/(1+1)) \\
&:= 2 \times ((22 \times ((2+2+2)^{2/2+2})) - 2) \\
&:= (3/3 + 3) \times (((33 \times (3+3)^3) - 3)/3) \\
&:= (44 \times (4^4 - 44 + 4)) - 4 \\
&:= 5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5)) \\
&:= (6+6)/6 + (66 \times (6+6) \times (6+6) - 6) \\
&:= 7/7 + (((7+7) \times ((7 \times 7 \times (7+7)) - 7)) - 7) \\
&:= (88/8 + 8) \times (8 \times 8 \times 8 - ((88+8)/8)) \\
&:= 9999 + ((9 - 9 \times 999)/(9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9501 &:= (1 + 1 + 1) \times (((1+1) \times (11 \times (1+11)^{1+1})) - 1) \\
&:= (((2 \times 22) - 2/2) \times (222 - 22/2)) - 2 \\
&:= (3 \times (33 \times (3 \times 33 - 3))) - 3 \\
&:= 4/4 + ((44 \times (4^4 - 44 + 4)) - 4) \\
&:= 5/5 + (5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) \\
&:= 66 \times (6+6) \times (6+6) - 6 \times 6/(6+6) \\
&:= (7+7)/7 + (((7+7) \times ((7 \times 7 \times (7+7)) - 7)) - 7) \\
&:= 8 + (88/8 \times (888 - (8/8 + 8 + 8 + 8))) \\
&:= 9 \times 999 + (((9+9)/9)^9) - ((9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9502 &:= (11 \times (((1+11)^{1+1+1})/(1+1))) - 1 - 1 \\
&:= (22 \times (2 \times 222 - 2)) - 222 \\
&:= 3/3 + ((3 \times (33 \times (3 \times 33 - 3))) - 3) \\
&:= (44 \times (4^4 - 44 + 4)) - (4+4)/4 \\
&:= (5+5)/5 + (5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) \\
&:= 66 \times (6+6) \times (6+6) - (6+6)/6 \\
&:= 7 + (((7+7) \times ((7 \times 7 \times (7+7)) - 7)) - (77/7)) \\
&:= ((88 + 8) \times (88/8 + 88)) - (8+8)/8 \\
&:= 9 \times 999 + (((9+9)/9)^9) - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9503 &:= (11 \times (((1+11)^{1+1+1})/(1+1))) - 1 \\
&:= ((2 \times 22) - 2/2) \times (222 - 2/2) \\
&:= (3 \times (33 \times (3 \times 33 - 3))) - 3/3 \\
&:= (44 \times (4^4 - 44 + 4)) - 4/4 \\
&:= 5 \times 5 \times 5 + ((5 - (5+5)/5) \times (5^5 + 5/5)) \\
&:= 66 \times (6+6) \times (6+6) - 6/6 \\
&:= ((7+7) \times ((7 \times 7 \times (7+7)) - 7)) - (7+7+7)/7 \\
&:= ((88 + 8) \times (88/8 + 88)) - 8/8 \\
&:= 9 \times 999 + ((9+9)/9)^9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9504 &:= 11 \times (((1+11)^{1+1+1})/(1+1)) \\
&:= 2 \times (22 \times ((2+2+2)^{2/2+2})) \\
&:= 3 \times (33 \times (3 \times 33 - 3)) \\
&:= 44 \times (4^4 - 44 + 4) \\
&:= 5 + ((5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) - 5/5) \\
&:= 66 \times (6+6) \times (6+6) \\
&:= (7/7 + 7) \times (7777/7 + 77) \\
&:= (88 + 8) \times (88/8 + 88) \\
&:= 99 \times (99 - ((9+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9505 &:= 1 + (11 \times (((1+11)^{1+1+1})/(1+1))) \\
&:= 2 + (((2 \times 22) - 2/2) \times (222 - 2/2)) \\
&:= 3/3 + (3 \times (33 \times (3 \times 33 - 3))) \\
&:= 4/4 + (44 \times (4^4 - 44 + 4)) \\
&:= 5 + (5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) \\
&:= 6/6 + 66 \times (6+6) \times (6+6) \\
&:= ((7+7) \times ((7 \times 7 \times (7+7)) - 7)) - 7/7 \\
&:= 8/8 + ((88 + 8) \times (88/8 + 88)) \\
&:= ((99 - 9/9)^{(9+9)/9}) - 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9506 &:= 1 + (1 + (11 \times (((1+11)^{1+1+1})/(1+1)))) \\
&:= 2 + (2 \times (22 \times ((2+2+2)^{2/2+2}))) \\
&:= 3 + ((3 \times (33 \times (3 \times 33 - 3))) - 3/3) \\
&:= (4+4)/4 + (44 \times (4^4 - 44 + 4)) \\
&:= 5 + ((5 \times (5 \times ((5 \times (5 \times (5 + 5 + 5))) + 5))) + 5/5) \\
&:= (6+6)/6 + 66 \times (6+6) \times (6+6) \\
&:= (7+7) \times ((7 \times 7 \times (7+7)) - 7) \\
&:= (8+8)/8 + ((88 + 8) \times (88/8 + 88)) \\
&:= (99 - 9/9) \times (99 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9507 &:= 1 + (1 + (1 + (11 \times (((1+11)^{1+1+1})/(1+1)))))) \\
&:= 2 + (((2 \times 22) - 2/2) \times (222 - 2/2)) + 2 \\
&:= 3 + (3 \times (33 \times (3 \times 33 - 3))) \\
&:= 4 + ((44 \times (4^4 - 44 + 4)) - 4/4) \\
&:= (5 - (5+5)/5) \times ((55 - (55/5)) + 5^5) \\
&:= (6 \times 6/(6+6)) + 66 \times (6+6) \times (6+6) \\
&:= 7/7 + ((7+7) \times ((7 \times 7 \times (7+7)) - 7)) \\
&:= 88/8 + (((88 + 8) \times (88/8 + 88)) - 8) \\
&:= 9/9 + ((99 - 9/9) \times (99 - ((9+9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9508 &:= (((11 \times (1 + ((1 + 11)^{1+1+1}))) - 1)/(1 + 1)) - 1 \\
&:= 2 \times ((22 \times ((2 + 2 + 2)^{2/2+2})) + 2) \\
&:= 3 + ((3 \times (33 \times (3 \times 33 - 3))) + 3/3) \\
&:= 4 + (44 \times (4^4 - 44 + 4)) \\
&:= 5 + (((5 - (5 + 5)/5) \times (5^5 + 5/5)) + 5 \times 5 \times 5) \\
&:= 6 + (66 \times (6 + 6) \times (6 + 6) - ((6 + 6)/6)) \\
&:= (7 + 7)/7 + ((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= 8 + ((88/8 + 8) \times (8 \times 8 \times 8 - ((88 + 8)/8))) \\
&:= 99 + ((99 - ((9 + 9)/9))^{(9+9)/9})
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9509 &:= ((11 \times (1 + ((1 + 11)^{1+1+1}))) - 1)/(1 + 1) \\
&:= 22^2 + ((222/2 - 2^{2+2})^2) \\
&:= 3 + (((3 \times (33 \times (3 \times 33 - 3))) - 3/3) + 3) \\
&:= 4 + ((44 \times (4^4 - 44 + 4)) + 4/4) \\
&:= ((5 + 5 + 5) \times (((5^5 - 5)/5 + 5) + 5)) - 5/5 \\
&:= 6 + (66 \times (6 + 6) \times (6 + 6) - 6/6) \\
&:= (7 + 7 + 7)/7 + ((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= ((88 - 8) \times (888/8 + 8)) - 88/8 \\
&:= 9 + (((9 - 9 \times 999)/(9 + 9)) + 9999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9510 &:= (1 + (11 \times (1 + ((1 + 11)^{1+1+1}))))/(1 + 1) \\
&:= 2 + ((2 \times 22 - 2)^2 + (2 \times 2 \times 22)^2) \\
&:= 3 + ((3 \times (33 \times (3 \times 33 - 3))) + 3) \\
&:= 4 + ((44 \times (4^4 - 44 + 4)) + (4 + 4)/4) \\
&:= (5 + 5 + 5) \times (((5^5 - 5)/5 + 5) + 5) \\
&:= 6 + 66 \times (6 + 6) \times (6 + 6) \\
&:= 77/7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) - 7) \\
&:= (((8 + 8)/8) + 8) \times ((888 - 8/8) + 8 \times 8) \\
&:= 9 + ((9 \times 999 - ((9 + 9)/9)) + ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9511 &:= 1 + ((1 + (11 \times (1 + ((1 + 11)^{1+1+1}))))/(1 + 1)) \\
&:= 22222/2 - (2 \times (22 - 2))^2 \\
&:= 3 + (((3 \times (33 \times (3 \times 33 - 3))) + 3/3) + 3) \\
&:= 4 + (((44 \times (4^4 - 44 + 4)) - 4/4) + 4) \\
&:= 5/5 + ((5 + 5 + 5) \times (((5^5 - 5)/5 + 5) + 5)) \\
&:= 6 + (66 \times (6 + 6) \times (6 + 6) + 6/6) \\
&:= 7 + ((7/7 + 7) \times (7777/7 + 77)) \\
&:= 8 + (((88 + 8) \times (88/8 + 88)) - 8/8) \\
&:= 9 + ((9 \times 999 - 9/9) + ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9512 &:= 11^{1+1+1} + (((1 + 1)^{1+1+1}) - 11) \\
&:= (2 \times 22 \times 222) - 2^{2 \times (2+2)} \\
&:= (3 \times ((33 \times (3 \times 33 - 3)) + 3)) - 3/3 \\
&:= 4 + ((44 \times (4^4 - 44 + 4)) + 4) \\
&:= (5/5 + 5)^5 + (5555 + 5^5)/5 \\
&:= 6 + (66 \times (6 + 6) \times (6 + 6) + ((6 + 6)/6)) \\
&:= 7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) - 7/7) \\
&:= 8 + ((88 + 8) \times (88/8 + 88)) \\
&:= 9 + (9 \times 999 + ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9513 &:= (11 \times (1 + (((1 + 11)^{1+1+1})/(1 + 1)))) - 1 - 1 \\
&:= (2/2 + 2)^2 \times (((2 \times 22 + 2)^2 - 2)/2) \\
&:= 3 \times ((33 \times (3 \times 33 - 3)) + 3) \\
&:= 4 + (((44 \times (4^4 - 44 + 4)) + 4/4) + 4) \\
&:= (5/5 + 5)^5 + (((5555 + 5^5) + 5)/5) \\
&:= 6 + (66 \times (6 + 6) \times (6 + 6) + (6 \times 6/(6 + 6))) \\
&:= 7 + ((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= (8/8 + 8) \times ((88 \times (88 + 8) + 8)/8) \\
&:= 9 + (99 \times (99 - ((9 + 9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9514 &:= (11 \times (1 + (((1 + 11)^{1+1+1})/(1 + 1)))) - 1 \\
&:= (2 \times (2 + 2) + 2)^{2+2} - (22^2 + 2) \\
&:= 3/3 + (3 \times ((33 \times (3 \times 33 - 3)) + 3)) \\
&:= (44 - 4)/4 + (44 \times (4^4 - 44 + 4)) \\
&:= (5 \times (55 \times ((5 \times 5 + 5) + 5))) - 555/5 \\
&:= ((66 - 6)/6) + 66 \times (6 + 6) \times (6 + 6) \\
&:= 7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) + 7/7) \\
&:= 8 + (((88 + 8) \times (88/8 + 88)) + ((8 + 8)/8)) \\
&:= 9 + (((99 - 9/9)^{(9+9)/9}) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9515 &:= 11 \times (1 + (((1 + 11)^{1+1+1})/(1 + 1))) \\
&:= (2 \times (2 + 2) + 2)^{2+2} - (22^2 + 2/2) \\
&:= 33/3 + (3 \times (33 \times (3 \times 33 - 3))) \\
&:= 44/4 + (44 \times (4^4 - 44 + 4)) \\
&:= 5 + ((5 + 5 + 5) \times (((5^5 - 5)/5 + 5) + 5)) \\
&:= 66/6 + 66 \times (6 + 6) \times (6 + 6) \\
&:= 7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) + ((7 + 7)/7)) \\
&:= 88/8 + ((88 + 8) \times (88/8 + 88)) \\
&:= 9 + ((99 - 9/9) \times (99 - ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9516 &:= 1 + (11 \times (1 + (((1 + 11)^{1+1+1})/(1 + 1)))) \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 22^2 \\
&:= 3 + (3 \times ((33 \times (3 \times 33 - 3)) + 3)) \\
&:= (4 \times (44 \times 44 + 444)) - 4 \\
&:= ((55 + 5/5) + 5) \times ((5^5 - 5)/(5 \times 5 - 5)) \\
&:= 6 + (66 \times (6 + 6) \times (6 + 6) + 6) \\
&:= (7/7 + 77) \times (777 + 77)/7 \\
&:= ((88 + 8)/8) \times ((8 \times 88 + 88) + 8/8) \\
&:= (99 + 9)/9 \times ((99 \times (9 - 9/9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9517 &:= 1 + (1 + (11 \times (1 + (((1 + 11)^{1+1+1})/(1 + 1)))))) \\
&:= 2/2 + ((2 \times (2 + 2) + 2)^{2+2} - 22^2) \\
&:= 3 + ((3 \times ((33 \times (3 \times 33 - 3)) + 3)) + 3/3) \\
&:= 4^4 + (((4 \times 4 + 4/4) + 4)^{4-4/4}) \\
&:= ((5 \times 5 + 5/5) + 5) \times (5^5 - 55)/(5 + 5) \\
&:= 6 + ((66 \times (6 + 6) \times (6 + 6) + 6/6) + 6) \\
&:= 77/7 + ((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= 8888 + (8 \times (88 - 8) - (88/8)) \\
&:= 9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9518 &:= 1 + (1 + (1 + (11 \times (1 + (((1 + 11)^{1+1+1})/(1 + 1)))))) \\
&:= 2 + ((2 \times (2 + 2) + 2)^{2+2} - 22^2) \\
&:= 3 + ((3 \times (33 \times (3 \times 33 - 3))) + 33/3) \\
&:= (4 \times (44 \times 44 + 444)) - (4 + 4)/4 \\
&:= 5 \times 5 \times 5 + ((5 - (5 + 5)/5) \times ((5^5 + 5/5) + 5)) \\
&:= 6 + ((66 \times (6 + 6) \times (6 + 6) + ((6 + 6)/6)) + 6) \\
&:= (77 + 7)/7 + ((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) \\
&:= ((88 - 8) \times (888/8 + 8)) - (8 + 8)/8 \\
&:= 9 \times (999 + 9) + ((9 \times 9 \times 99 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9519 &:= (((1 + 1 + 11)^{1+1+1+1}) - 1)/(1 + 1 + 1) - 1 \\
&:= ((2 - 22) \times (2 - 22^2)) - (22/2)^2 \\
&:= 3 + ((3 \times ((33 \times (3 \times 33 - 3)) + 3)) + 3) \\
&:= (4 \times (44 \times 44 + 444)) - 4/4 \\
&:= ((5 + 5 + 5) \times (5^5/5 + 5 + 5)) - (5/5 + 5) \\
&:= 6 + ((66 \times (6 + 6) \times (6 + 6) + (6 \times 6/(6 + 6))) + 6) \\
&:= 7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) - 7/7) + 7 \\
&:= (88/8 + 8) \times (8 \times 8 \times 8 - 88/8) \\
&:= (9/9 + 9 + 9) \times (((9 + 9)/9)^9 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9520 &:= (((1 + 1 + 11)^{1+1+1+1}) - 1)/(1 + 1 + 1) \\
&:= (2 - 22) \times (2 \times (2 + 2) - 22^2) \\
&:= (3^3 + 3/3) \times (((3/3 + 3 + 3)^3) - 3) \\
&:= 4 \times (44 \times 44 + 444) \\
&:= (555 + 5) \times (((55 + 5)/5) + 5) \\
&:= 6 + (66 \times (6 + 6) \times (6 + 6) + ((66 - 6)/6)) \\
&:= 7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) + 7) \\
&:= (88 - 8) \times (888/8 + 8) \\
&:= (9/9 - 9 \times 9) \times (((9 - 999)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9521 &:= 1 + (((1 + 1 + 11)^{1+1+1+1}) - 1)/(1 + 1 + 1) \\
&:= 2/2 + ((2 - 22) \times (2 \times (2 + 2) - 22^2)) \\
&:= (3 \times ((33 \times (3 \times 33 - 3)) + 3) + 3) - 3/3 \\
&:= 4/4 + (4 \times (44 \times 44 + 444)) \\
&:= 5^5 + ((5/5 + 5)^5 - (5 \times 5 \times 55 + 5)) \\
&:= 6 + (66 \times (6 + 6) \times (6 + 6) + (66/6)) \\
&:= 7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) + 7/7) + 7 \\
&:= 8/8 + ((88 - 8) \times (888/8 + 8)) \\
&:= 9 + ((9 \times 999 + ((9 + 9)/9)^9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9522 &:= (1 + 1) \times (((1 + 1 + 1) \times (1 + (11 + 11)))^{1+1}) \\
&:= 2 \times (((2/2 + 2) \times (22 + 2/2))^2) \\
&:= 3 \times (((33 \times (3 \times 33 - 3)) + 3) + 3) \\
&:= (4 + 4)/4 + (4 \times (44 \times 44 + 444)) \\
&:= (5 - (5 + 5)/5) \times ((55 - (5/5 + 5)) + 5^5) \\
&:= 6 + ((66 \times (6 + 6) \times (6 + 6) + 6) + 6) \\
&:= ((7 + 7)/7) \times ((77 - (7/7 + 7))^{(7+7)/7}) \\
&:= (8 + 8)/8 + ((88 - 8) \times (888/8 + 8)) \\
&:= (99 \times (99 - ((9 + 9)/9))) - 9 \times 9
\end{aligned}$$

- 9523 := $11^{1+1+1} + ((1+1)^{1+1+11})$
:= $2/2 + (2 \times ((2/2 + 2) \times (22 + 2/2))^2)$
:= $3 + ((3^3 + 3/3) \times ((3/3 + 3 + 3^3) - 3))$
:= $(4 \times (((4 - 4/4) + 4^4)) - (4 - 4/4)^4)$
:= $((5 + 5 + 5) \times (5^5/5 + 5 + 5)) - (5 + 5)/5$
:= $6 + (((66 \times (6 + 6) \times (6 + 6) + 6/6) + 6) + 6)$
:= $7 + ((7/7 + 77) \times (777 + 77)/7)$
:= $(8/8 + 88) \times ((88/8 + 88) + 8)$
:= $((99 - 9/9)^{(9+9)/9}) - 9 \times 9$
- 9524 := $1 + (11^{1+1+1} + ((1+1)^{1+1+11}))$
:= $2 + (2 \times ((2/2 + 2) \times (22 + 2/2))^2)$
:= $33/3 + (3 \times ((33 \times (3 \times 33 - 3)) + 3))$
:= $4 + (4 \times (44 \times 44 + 444))$
:= $((5 + 5 + 5) \times (5^5/5 + 5 + 5)) - 5/5$
:= $((6 + 6)/6) \times (((6 + 6)/6)^{6+6} + 666)$
:= $7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) + (77/7))$
:= $8 + (((88 + 8)/8) \times ((8 \times 88 + 88) + 8/8))$
:= $9 + (((99 - 9/9) \times (99 - ((9 + 9)/9))) + 9)$
- 9525 := $1 + (1 + (11^{1+1+1} + ((1+1)^{1+1+11})))$
:= $(2 \times 22 \times 222) - (22^2 + 2)/2$
:= $3 + (3 \times ((33 \times (3 \times 33 - 3)) + 3) + 3)$
:= $4 + ((4 \times (44 \times 44 + 444)) + 4/4)$
:= $(5 + 5 + 5) \times (5^5/5 + 5 + 5)$
:= $66 \times (6 + 6) \times (6 + 6) + ((6 \times 6 + 6)/(6 + 6)/6)$
:= $(77 - (7 + 7)/7) \times (7/7 + 77 + 7 \times 7)$
:= $(88/8 + 8 \times 8) \times (8 \times (8 + 8) - 8/8)$
:= $9 + ((99 + 9)/9 \times ((99 \times (9 - 9/9)) + 9/9))$
- 9526 := $11 \times (1 + (1 + ((1 + 11)^{1+1+1})/(1 + 1)))$
:= $22 \times (2 \times 222 - 22/2)$
:= $3 + (((3^3 + 3/3) \times ((3/3 + 3 + 3^3) - 3)) + 3)$
:= $(44/((4 + 4)/4)) \times (444 - 44/4)$
:= $5^5 + ((5/5 + 5)^5 - 5 \times 5 \times 55)$
:= $66/6 \times ((6 \times (6 + 6) \times (6 + 6)) + ((6 + 6)/6))$
:= $(7 \times (7 \times (7 + 7) \times (7 + 7))) - 7/7 - 77$
:= $88/8 \times (888 - (88 + 88)/8)$
:= $9 + (((99 - ((9 + 9)/9))^{(9+9)/9}) + 99) + 9$
- 9527 := $11111 - (11 \times (1 + 11)^{1+1})$
:= $2/2 + (22 \times (2 \times 222 - 22/2))$
:= $(3/3 + 3 + 3) \times (((33/3)^3 + 3^3) + 3)$
:= $4 + ((4 \times (((4 - 4/4) + 4^4)) - (4 - 4/4)^4)$
:= $(5 + 5)/5 + ((5 + 5 + 5) \times (5^5/5 + 5 + 5))$
:= $6 + ((66 \times (6 + 6) \times (6 + 6) + (66/6)) + 6)$
:= $(7 \times (7 \times (7 + 7) \times (7 + 7))) - 77$
:= $8888 + (8 \times (88 - 8) - 8/8)$
:= $((9 - 9/9) \times (9999/9 + 9 \times 9)) - 9$
- 9528 := $1 + (11111 - (11 \times (1 + 11)^{1+1}))$
:= $2 + (22 \times (2 \times 222 - 22/2))$
:= $3^3 + ((3 \times (33 \times (3 \times 33 - 3))) - 3)$
:= $4 + ((4 \times (44 \times 44 + 444)) + 4)$
:= $(5 - (5 + 5)/5) \times ((5 \times (5 + 5) + 5^5) + 5/5)$
:= $(6 + 6) \times (66 \times (6 + 6) + ((6 + 6)/6))$
:= $7/7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - 77)$
:= $8888 + 8 \times (88 - 8)$
:= $(9 - 9/9) \times (((9999 - 9)/9) + 9 \times 9)$
- 9529 := $1 + (1 + (11111 - (11 \times (1 + 11)^{1+1})))$
:= $((2 - 22) \times (2 - 22^2)) - 222/2$
:= $((3 \times 3 + 3/3) + 3) \times ((3^{3+3} + 3/3) + 3)$
:= $(4 \times (((4 - 4/4) + 4^4)) - (44 + 4^4)/4)$
:= $5 + (((5 + 5 + 5) \times (5^5/5 + 5 + 5)) - 5/5)$
:= $6 \times 6 + (66 \times (6 + 6) \times (6 + 6) - (66/6))$
:= $(7 + 7)/7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - 77)$
:= $8/8 + (8888 + 8 \times (88 - 8))$
:= $9 + ((9/9 - 9 \times 9) \times (((9 - 999)/9) - 9))$
- 9530 := $11^{1+1} + ((111 - (1 + (1 + 1 + 11)))^{1+1})$
:= $((22 + 2) \times ((22 - 2)^2 - 2)) - 22$
:= $3^3 + ((3 \times (33 \times (3 \times 33 - 3))) - 3/3)$
:= $4 + ((44/((4 + 4)/4)) \times (444 - 44/4))$
:= $5 + ((5 + 5 + 5) \times (5^5/5 + 5 + 5))$
:= $6 + (((6 + 6)/6) \times (((6 + 6)/6)^{6+6} + 666))$
:= $7 + (((7/7 + 77) \times (777 + 77)/7) + 7)$
:= $(8 + 8)/8 + (8888 + 8 \times (88 - 8))$
:= $9 + (((9 \times 999 + ((9 + 9)/9)^9) + 9) + 9)$
- 9531 := $11 + (((1 + 1 + 11)^{1+1+1+1}) - 1)/(1 + 1 + 1)$
:= $(2/2 + 2)^2 \times (((2 \times 22 + 2)^2 + 2)/2)$
:= $3 \times ((33 \times (3 \times 33 - 3)) + 3 \times 3)$
:= $44/4 + (4 \times (44 \times 44 + 444))$
:= $5 + (((5 + 5 + 5) \times (5^5/5 + 5 + 5)) + 5/5)$
:= $(66 \times 6/(6 + 6)) + (66 \times (6 + 6) \times (6 + 6) - 6)$
:= $7 + (((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7)) + (77/7)) + 7$
:= $8 + ((8/8 + 88) \times ((88/8 + 88) + 8))$
:= $((9 + 9) \times (((9 + 9)/9)^9 + 9) + 9) - 9$
- 9532 := $(11 \times (1 + 1)^{11}) - ((1 + 1 + 1 + 111)^{1+1})$
:= $2 + (((22 + 2) \times ((22 - 2)^2 - 2)) - 22)$
:= $3^3 + ((3 \times (33 \times (3 \times 33 - 3))) + 3/3)$
:= $4^4 \times (44 - 4) - 4 \times 4 \times 44 + 4$
:= $((5 - (5 + 5)/5) \times ((55 - 5/5) + 5^5)) - 5$
:= $(6 - ((6 + 6)/6)) \times (6 \times 6 \times 66 + 6/6 + 6)$
:= $7 + ((77 - (7 + 7)/7) \times (7/7 + 77 + 7 \times 7))$
:= $((88 + 8)/8) + ((88 - 8) \times (888/8 + 8))$
:= $9 + (((99 - 9/9)^{(9+9)/9}) - 9 \times 9)$
- 9533 := $11 + ((1 + 1) \times (((1 + 1 + 1) \times (1 + (11 + 11)))^{1+1}))$
:= $2 + ((2/2 + 2)^2 \times (((2 \times 22 + 2)^2 + 2)/2))$
:= $(3 + 3)^3 + ((3/3 + 3 + 3) \times (33/3)^3)$
:= $4 + ((4 \times (((4 - 4/4) + 4^4)) - (44 + 4^4)/4)$
:= $5 + ((5 - (5 + 5)/5) \times ((5 \times (5 + 5) + 5^5) + 5/5))$
:= $6 \times 6 + (66 \times (6 + 6) \times (6 + 6) - (6/6 + 6))$
:= $7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - (7/7 + 77))$
:= $8 + ((88/8 + 8 \times 8) \times (8 \times (8 + 8) - 8/8))$
:= $9 + (((99 - 9/9) \times (99 - ((9 + 9)/9))) + 9) + 9$
- 9534 := $11 + (11^{1+1+1} + ((1+1)^{1+1+11}))$
:= $(2/2 + 2) \times ((2 \times (2 \times (22 - 2))^2) - 22)$
:= $3 + ((3 \times (33 \times (3 \times 33 - 3))) + 3^3)$
:= $((4 \times 4 + 4/4) + 4) \times ((44 - 4)/4 + 444)$
:= $(5 - (5 + 5)/5) \times ((5^5 - ((5 + 5)/5)) + 55)$
:= $6 \times 6 + (66 \times (6 + 6) \times (6 + 6) - 6)$
:= $7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - 77)$
:= $(8 \times ((8 + 8) \times (88 - 8) - 88)) - (8 + 8)/8$
:= $99/9 + (((99 - 9/9)^{(9+9)/9}) - 9 \times 9)$
- 9535 := $((11 + 11)^{1+1+1}) - (1 + (1 + 1111))$
:= $(22^{2/2+2}) - ((2222/2) + 2)$
:= $3 + (((3 \times (33 \times (3 \times 33 - 3))) + 3^3) + 3/3)$
:= $4^4 \times (44 - 4) - 4 \times 4 \times 44 + 4/4$
:= $((5 + 5 + 5) \times ((55 + 5^5)/5)) - 5$
:= $6 \times 6 + ((66 \times (6 + 6) \times (6 + 6) - 6) + 6/6)$
:= $7 + (((7 \times (7 \times (7 + 7) \times (7 + 7))) - 77) + 7/7)$
:= $(8 \times ((8 + 8) \times (88 - 8) - 88)) - 8/8$
:= $9 \times 999 + (99 \times 99 - 9)/(9 + 9)$
- 9536 := $((11 + 11)^{1+1+1}) - (1 + 1111)$
:= $2^{2+2} \times (((22 + 2)^2) - 2) + 22$
:= $(33 - 3/3) \times (3 \times 3 \times 33 + 3/3)$
:= $4 \times ((44 \times 44 + 444) + 4)$
:= $(5/5 + 5)^5 + (55 \times ((5 + 5)/5)^5)$
:= $((6 + 6)/6)^6 \times (((6 + 6) \times (6 + 6) - 6/6) + 6)$
:= $7 + (((7 \times (7 \times (7 + 7) \times (7 + 7))) - 77) + ((7 + 7)/7))$
:= $8 \times ((8 + 8) \times (88 - 8) - 88)$
:= $(9 - 9/9) \times (9999/9 + 9 \times 9)$
- 9537 := $((11 + 11)^{1+1+1}) - 1111$
:= $(22^{2/2+2}) - 2222/2$
:= $33 + (3 \times (33 \times (3 \times 33 - 3)))$
:= $4/4 + (4 \times ((44 \times 44 + 444) + 4))$
:= $(5 - (5 + 5)/5) \times ((55 - 5/5) + 5^5)$
:= $(66 \times 6/(6 + 6)) + 66 \times (6 + 6) \times (6 + 6)$
:= $(7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - (77/7 + 7)$
:= $8/8 + (8 \times ((8 + 8) \times (88 - 8) - 88))$
:= $9 + ((9 - 9/9) \times (((9999 - 9)/9) + 9 \times 9))$

- 9538 := $1 + (((11 + 11)^{1+1+1}) - 1111)$
:= $2 + (2^{2+2} \times (((22 + 2)^2) - 2) + 22)$
:= $3/3 + ((3 \times (33 \times (3 \times 33 - 3))) + 33)$
:= $((4/4 - 4^4) + 4) \times (((4 + 4)/4 - 44) + 4)$
:= $((5 + 5 + 5) \times ((55 + 5^5)/5)) - (5 + 5)/5$
:= $6 \times 6 + (66 \times (6 + 6) \times (6 + 6) - ((6 + 6)/6))$
:= $77/7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - 77)$
:= $(888/8 \times (88 - ((8 + 8)/8))) - 8$
:= $(9/9 + 9 + 9) \times (((9 + 9)/9)^9) - (9/9 + 9)$
- 9539 := $1 + (1 + (((11 + 11)^{1+1+1}) - 1111))$
:= $2 + ((22^{2/2+2}) - (2222/2))$
:= $3 + ((33 - 3/3) \times (3 \times 3 \times 33 + 3/3))$
:= $(4 \times (((4 - 4/4) + 4^4)) - (4^4 + 4)/4)$
:= $((5 + 5 + 5) \times ((55 + 5^5)/5)) - 5/5$
:= $6 \times 6 + (66 \times (6 + 6) \times (6 + 6) - 6/6)$
:= $(777/7 \times (((7 + 7)/7 + 77) + 7)) - 7$
:= $88/8 + (8888 + 8 \times (88 - 8))$
:= $(9 + 9) \times (((9 + 9)/9)^9 + 9) - 9/9$
- 9540 := $1 + (1 + (1 + (((11 + 11)^{1+1+1}) - 1111)))$
:= $(2^{2+2} + 2) \times ((22 \times (22 + 2)) + 2)$
:= $(3 \times 3 + 3) \times ((33 \times (3^3 - 3)) + 3)$
:= $4 \times (((4 - 4/4) + 4^4) - 4 \times 4)$
:= $(5 + 5 + 5) \times ((55 + 5^5)/5)$
:= $6 \times ((66 \times ((6 + 6 + 6) + 6)) + 6)$
:= $(77 + 7)/7 \times ((77/7 + 777) + 7)$
:= $(((8 + 8)/8 + 88) + 8)^{(8+8)/8} - 8 \times 8$
:= $(9 + 9) \times (((9 + 9)/9)^9 + 9) + 9$
- 9541 := $1 + (1 + (1 + (1 + (((11 + 11)^{1+1+1}) - 1111))))$
:= $((22 + 2) \times ((22 - 2)^2 - 2)) - 22/2$
:= $3/3 + ((3 \times 3 + 3) \times ((33 \times (3^3 - 3)) + 3))$
:= $4/4 + (4 \times (((4 - 4/4) + 4^4) - 4 \times 4))$
:= $5/5 + ((5 + 5 + 5) \times ((55 + 5^5)/5))$
:= $6 \times 6 + (66 \times (6 + 6) \times (6 + 6) + 6/6)$
:= $(7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - (7 + 7)$
:= $8 + (((88/8 + 8 \times 8) \times (8 \times (8 + 8) - 8/8)) + 8)$
:= $9/9 + ((9 + 9) \times (((9 + 9)/9)^9 + 9) + 9)$
- 9542 := $(1 + 1) \times ((111 \times (((1 + 1) \times (11 + 11)) - 1)) - (1 + 1))$
:= $(2 \times (22 \times 222 - 2)) - 222$
:= $(3^3 - 3/3) \times (((33 \times 33 + 3)/3) + 3)$
:= $(4 + 4)/4 + (4 \times (((4 - 4/4) + 4^4) - 4 \times 4))$
:= $5 + ((5 - (5 + 5)/5) \times ((55 - 5/5) + 5^5))$
:= $6 \times 6 + (66 \times (6 + 6) \times (6 + 6) + ((6 + 6)/6))$
:= $7/7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - (7 + 7))$
:= $8 + ((8 \times ((8 + 8) \times (88 - 8) - 88)) - ((8 + 8)/8))$
:= $(9 + 9)/9 + ((9 + 9) \times (((9 + 9)/9)^9 + 9) + 9)$
- 9543 := $11111 - ((1 + 111) \times (1 + (1 + 1 + 11)))$
:= $(222 \times ((2 \times 22) - 2/2)) - 2/2 - 2$
:= $3 + ((3 \times 3 + 3) \times ((33 \times (3^3 - 3)) + 3))$
:= $4 + ((4 \times (((4 - 4/4) + 4^4)) - (4^4 + 4)/4)$
:= $(5 - (5 + 5)/5) \times ((55 + 5^5) + 5/5)$
:= $66 + ((6/6 + 6 + 6) \times ((6 \times 6/(6 + 6))^6))$
:= $(7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - (77 + 7)/7$
:= $8 + ((8 \times ((8 + 8) \times (88 - 8) - 88)) - 8/8)$
:= $((9 + 9 + 9)/9) + ((9 + 9) \times (((9 + 9)/9)^9 + 9) + 9)$
- 9544 := $(1 + 1) \times ((111 \times (((1 + 1) \times (11 + 11)) - 1)) - 1)$
:= $(222 \times ((2 \times 22) - 2/2)) - 2$
:= $3 + (((3 \times 3 + 3) \times ((33 \times (3^3 - 3)) + 3)) + 3/3)$
:= $4 + (4 \times (((4 - 4/4) + 4^4) - 4 \times 4))$
:= $5 + (((5 + 5 + 5) \times ((55 + 5^5)/5)) - 5/5)$
:= $6 + ((66 \times (6 + 6) \times (6 + 6) - ((6 + 6)/6)) + 6 \times 6)$
:= $(7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - 77/7$
:= $8 + (8 \times ((8 + 8) \times (88 - 8) - 88))$
:= $(9 - 9/9) \times ((9999 + 9)/9 + 9 \times 9)$
- 9545 := $((1 + 1) \times (111 \times (((1 + 1) \times (11 + 11)) - 1))) - 1$
:= $(222 \times ((2 \times 22) - 2/2)) - 2/2$
:= $((3/3 + 3 + 3) \times ((33/3)^3 + 33)) - 3$
:= $4 + ((4 \times (((4 - 4/4) + 4^4) - 4 \times 4)) + 4/4)$
:= $5 + ((5 + 5 + 5) \times ((55 + 5^5)/5))$
:= $6 + ((66 \times (6 + 6) \times (6 + 6) - 6/6) + 6 \times 6)$
:= $((7 - 77)/7) + (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7))$
:= $8 + ((8 \times ((8 + 8) \times (88 - 8) - 88)) + 8/8)$
:= $99 \times 99 - (((9 + 9)/9)^9 - 9/9)$
- 9546 := $(1 + 1) \times (111 \times (((1 + 1) \times (11 + 11)) - 1))$
:= $222 \times ((2 \times 22) - 2/2)$
:= $33 + (3 \times ((33 \times (3 \times 33 - 3)) + 3))$
:= $(44 - 4/4) \times (444/((4 + 4)/4))$
:= $555/5 \times (555/5 - 5 \times 5)$
:= $6 + (66 \times (6 + 6) \times (6 + 6) + 6 \times 6)$
:= $777/7 \times (((7 + 7)/7 + 77) + 7)$
:= $888/8 \times (88 - ((8 + 8)/8))$
:= $9 \times 999 + (9999 - 9)/(9 + 9)$
- 9547 := $1 + ((1 + 1) \times (111 \times (((1 + 1) \times (11 + 11)) - 1)))$
:= $2/2 + (222 \times ((2 \times 22) - 2/2))$
:= $(3 \times (3 \times (3^{3+3} + 333))) - 33/3$
:= $44 + ((44 \times (4^4 - 44 + 4)) - 4/4)$
:= $5 + (((5 - (5 + 5)/5) \times ((55 - 5/5) + 5^5)) + 5)$
:= $6 + ((66 \times (6 + 6) \times (6 + 6) + 6/6) + 6 \times 6)$
:= $(7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - (7/7 + 7)$
:= $8/8 + (888/8 \times (88 - ((8 + 8)/8)))$
:= $(9 \times ((9 \times (99 + 9 + 9)) + 9)) - 99/9$
- 9548 := $11 + (((11 + 11)^{1+1+1}) - 1111)$
:= $2 + (222 \times ((2 \times 22) - 2/2))$
:= $(3/3 + 3 + 3) \times ((33/3)^3 + 33)$
:= $44 + (44 \times (4^4 - 44 + 4))$
:= $5 + ((5 - (5 + 5)/5) \times ((55 + 5^5) + 5/5))$
:= $(6 - ((6 + 6)/6)) \times (6 \times 6 \times 66 + (66/6))$
:= $(7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - 7$
:= $88/8 \times (888 - ((88 + 8)/8 + 8))$
:= $(9 \times ((9 \times (99 + 9 + 9)) + 9)) - 9/9 - 9$
- 9549 := $1 + (11 + (((11 + 11)^{1+1+1}) - 1111))$
:= $2 + ((222 \times ((2 \times 22) - 2/2)) + 2/2)$
:= $3 \times ((3 \times (3^{3+3} + 333)) - 3)$
:= $44 + ((44 \times (4^4 - 44 + 4)) + 4/4)$
:= $5^5 + ((55 \times (55 + 5) - 5/5) + 5^5)$
:= $((6/6 + 6 + 6) \times (((6 \times 6/(6 + 6))^6) + 6)) - 6$
:= $7/7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - 7)$
:= $((88/8 + 8) \times (8 \times 8 \times 8 - (8/8 + 8))) - 8$
:= $(9 \times ((9 \times (99 + 9 + 9)) + 9)) - 9$
- 9550 := $(1 + 1) \times (1 + (1 + (111 \times (((1 + 1) \times (11 + 11)) - 1))))$
:= $((22 + 2) \times ((22 - 2)^2 - 2)) - 2$
:= $3/3 + (3 \times ((3 \times (3^{3+3} + 333)) - 3))$
:= $4 + ((44 - 4/4) \times (444/((4 + 4)/4)))$
:= $5 \times (5^5 - (5 \times ((5 - (5 + 5)/5)^5)))$
:= $6 \times 6 + (66 \times (6 + 6) \times (6 + 6) + ((66 - 6)/6))$
:= $(7 + 7)/7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - 7)$
:= $88 \times (88 + 8) + ((8888 - 8)/8 - 8)$
:= $9/9 + ((9 \times ((9 \times (99 + 9 + 9)) + 9)) - 9)$
- 9551 := $11111 - ((1 + 1 + 11) \times (11^{1+1} - 1))$
:= $((22 + 2) \times ((22 - 2)^2 - 2)) - 2/2$
:= $3 + ((3/3 + 3 + 3) \times ((33/3)^3 + 33))$
:= $4 \times 44 + ((44/4 + 4) \times (4/4 + 4)^4)$
:= $5 + (555/5 \times (555/5 - 5 \times 5))$
:= $6 \times 6 + (66 \times (6 + 6) \times (6 + 6) + (66/6))$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - (77/7))$
:= $8888/8 + (88 \times (88 + 8) - 8)$
:= $(9 + 9)/9 + ((9 \times ((9 \times (99 + 9 + 9)) + 9)) - 9)$
- 9552 := $(1 + 1) \times ((1 + 11) \times (((1 + 1) \times (11 - 1))^{1+1} - (1 + 1)))$
:= $(22 + 2) \times ((22 - 2)^2 - 2)$
:= $3 + (3 \times ((3 \times (3^{3+3} + 333)) - 3))$
:= $((44 - 4)/4)^4 - (444 + 4)$
:= $(5 - (5 + 5)/5) \times (((55 - 5/5) + 5^5) + 5)$
:= $6 + ((66 \times (6 + 6) \times (6 + 6) + 6 \times 6) + 6)$
:= $(7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - (7 + 7 + 7)/7$
:= $8 + ((8 \times ((8 + 8) \times (88 - 8) - 88)) + 8)$
:= $(9 - 9/9) \times (((9999 + 9) + 9)/9) + 9 \times 9$

- 9553 := $(1 + (1 + 1 + 1 + 11) \times ((1 + 1)^{11} - 1)) / (1 + 1 + 1)$
:= $2/2 + ((22 + 2) \times ((22 - 2)^2 - 2))$
:= $3 + ((3 \times (3 \times (3^{3+3} + 333)) - 3)) + 3/3$
:= $4/4 + (((44 - 4)/4)^4 - (444 + 4))$
:= $5 + (((5 - (5 + 5)/5) \times ((55 + 5^5) + 5/5)) + 5)$
:= $6 + (((66 \times (6 + 6) \times (6 + 6) + 6/6) + 6 \times 6) + 6)$
:= $(7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - (7 + 7)/7$
:= $(8 \times (8 \times (8 \times 8 + 88) - 8)) - 888/8$
:= $9999 - ((9 \times 9 \times 99 + 9) / (9 + 9))$
- 9554 := $(111 + (11 \times ((1 + 11)^{1+1+1} - 1))) / (1 + 1)$
:= $2 + ((22 + 2) \times ((22 - 2)^2 - 2))$
:= $(33/3)^3 + (3 \times ((33/3 + 3)^3 - 3))$
:= $((44 - 4)/4)^4 - (444 + (4 + 4)/4)$
:= $((5 + 5 + 5) \times ((55 + 5^5 + 5)/5)) - 5/5$
:= $6 + ((6 - ((6 + 6)/6)) \times (6 \times 6 \times 66 + (66/6)))$
:= $(7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - 7/7$
:= $8 + (888/8 \times (88 - ((8 + 8)/8)))$
:= $9 + (99 \times 99 - (((9 + 9)/9)^{9-9/9}))$
- 9555 := $(11 + (11 - 1)) \times (11 + ((1 + 1) \times (1 + 1) \times 111))$
:= $2 + (((22 + 2) \times ((22 - 2)^2 - 2)) + 2/2)$
:= $(3 \times (3 \times (3^{3+3} + 333))) - 3$
:= $(44 - (4/4 + 4)) \times (4^4 - 44/4)$
:= $(5 + 5 + 5) \times ((55 + 5^5 + 5)/5)$
:= $(6/6 + 6 + 6) \times (((6 \times 6 / (6 + 6))^6) + 6)$
:= $7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)$
:= $(8/8 + 8 \times 8) \times ((8 \times (8 + 8) + (88/8)) + 8)$
:= $(9 \times ((9 \times (99 + 9 + 9)) + 9)) - (9 + 9 + 9)/9$
- 9556 := $11111 - (1 + (111 \times (1 + (1 + 1 + 11))))$
:= $2 + (((22 + 2) \times ((22 - 2)^2 - 2)) + 2)$
:= $3/3 + ((3 \times (3 \times (3^{3+3} + 333))) - 3)$
:= $((44 - 4)/4)^4 - 444$
:= $5/5 + ((5 + 5 + 5) \times ((55 + 5^5 + 5)/5))$
:= $6/6 + ((6/6 + 6 + 6) \times (((6 \times 6 / (6 + 6))^6) + 6))$
:= $7/7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7))$
:= $8 + (88/8 \times (888 - ((88 + 8)/8 + 8)))$
:= $(9 \times ((9 \times (99 + 9 + 9)) + 9)) - (9 + 9)/9$
- 9557 := $11111 - (111 \times (1 + (1 + 1 + 11)))$
:= $22/2 + (222 \times ((2 \times 22) - 2/2))$
:= $(3 \times (3 \times (3^{3+3} + 333))) - 3/3$
:= $4/4 + (((44 - 4)/4)^4 - 444)$
:= $5 + ((5 - (5 + 5)/5) \times (((55 - 5/5) + 5^5) + 5))$
:= $6 + ((66 \times (6 + 6) \times (6 + 6) + (66/6)) + 6 \times 6)$
:= $(7 + 7)/7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7))$
:= $(88/8 + 8) \times (8 \times 8 \times 8 - (8/8 + 8))$
:= $(9/9 + 9 + 9) \times (((9 + 9)/9)^9 - 9)$
- 9558 := $(11 - 1 - 1)^{1+1} \times (11^{1+1} - (1 + 1 + 1))$
:= $(2^{2+2} + 2) \times (((22 + 2/2)^2) + 2)$
:= $3 \times (3 \times (3^{3+3} + 333))$
:= $(4 + 4)/4 + (((44 - 4)/4)^4 - 444)$
:= $(5 - (5 + 5)/5) \times (((55 + 5^5) + 5/5) + 5)$
:= $66 + ((6 + 6) \times (66 \times (6 + 6) - 6/6))$
:= $(77/7 + 7) \times (7 \times 77 - (7/7 + 7))$
:= $88 \times (88 + 8) + (8888 - 8)/8$
:= $9 \times ((9 \times (99 + 9 + 9)) + 9)$
- 9559 := $11 \times (11 \times ((11 - 1 - 1)^{1+1} - (1 + 1)))$
:= $(22/2)^2 \times ((2/2 + 2)^{2+2} - 2)$
:= $3/3 + (3 \times (3 \times (3^{3+3} + 333)))$
:= $(4 \times (((4 - 4/4) + 4)^4)) - (44 + 4/4)$
:= $5 + (((5 + 5 + 5) \times ((55 + 5^5 + 5)/5)) - 5/5)$
:= $66 + (66 \times (6 + 6) \times (6 + 6) - (66/6))$
:= $((7 + 7)/7 + 77) \times (((7 + 7)/7)^7 - 7)$
:= $88/8 \times (888 - (88/8 + 8))$
:= $9/9 + (9 \times ((9 \times (99 + 9 + 9)) + 9))$
- 9560 := $1 + (11 \times (11 \times ((11 - 1 - 1)^{1+1} - (1 + 1))))$
:= $(2 - 22) \times (((2 - 22^2) + 2) + 2)$
:= $3 + ((3 \times (3 \times (3^{3+3} + 333))) - 3/3)$
:= $(4 \times (((4 - 4/4) + 4)^4)) - 44$
:= $5 + ((5 + 5 + 5) \times ((55 + 5^5 + 5)/5))$
:= $66 + (66 \times (6 + 6) \times (6 + 6) + ((6 - 66)/6))$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - ((7 + 7)/7))$
:= $88 + ((8 + 8) \times ((8 \times (8 \times 8 + 8) + 8) + 8))$
:= $(9 + 9)/9 + (9 \times ((9 \times (99 + 9 + 9)) + 9))$
- 9561 := $1 + (1 + (11 \times (11 \times ((11 - 1 - 1)^{1+1} - (1 + 1))))$
:= $2 + ((22/2)^2 \times ((2/2 + 2)^{2+2} - 2))$
:= $3 + (3 \times (3 \times (3^{3+3} + 333)))$
:= $4/4 + ((4 \times (((4 - 4/4) + 4)^4)) - 44)$
:= $555/5 + ((5 + 5 + 5) \times (5^5/5 + 5))$
:= $6 + ((6/6 + 6 + 6) \times (((6 \times 6 / (6 + 6))^6) + 6))$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) - 7/7)$
:= $((88 - 8/8) \times 888/8) - (88 + 8)$
:= $((9 + 9 + 9)/9) + (9 \times ((9 \times (99 + 9 + 9)) + 9))$
- 9562 := $(1 + (1 + 1 + 11)) \times ((1 + (1 + 1)^{11}) / (1 + 1 + 1))$
:= $2 + ((2 - 22) \times (((2 - 22^2) + 2) + 2))$
:= $3 + ((3 \times (3 \times (3^{3+3} + 333))) + 3/3)$
:= $(4 + 4)/4 + ((4 \times (((4 - 4/4) + 4)^4)) - 44)$
:= $5 \times 5 + ((5 - (5 + 5)/5) \times ((55 - 5/5) + 5^5))$
:= $((6 + 6)/6)^6 + (66 \times (6 + 6) \times (6 + 6) - 6)$
:= $7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7))$
:= $((8/8 - 88) \times ((8 - 888)/8)) - 8$
:= $9 + (9999 - ((9 \times 9 \times 99 + 9) / (9 + 9)))$
- 9563 := $1 + (1 + 1 + 1 + 11) \times ((1 + (1 + 1)^{11}) / (1 + 1 + 1))$
:= $22/2 + ((22 + 2) \times ((22 - 2)^2 - 2))$
:= $(33/3)^3 + (3 \times (33/3 + 3)^3)$
:= $4 + 4 \times (4 - 4/4 + 4)^4 - (44 + 4/4)$
:= $((5 + 5)/5)^5 \times (5 \times (55 + 5) - 5/5) - 5$
:= $66 + (66 \times (6 + 6) \times (6 + 6) - (6/6 + 6))$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) + 7/7)$
:= $8 + ((8/8 + 8 \times 8) \times ((8 \times (8 + 8) + (88/8)) + 8))$
:= $9 + ((99 \times 99 - (((9 + 9)/9)^{9-9/9})) + 9)$
- 9564 := $((11 \times (11 + ((1 + 11)^{1+1+1})) - 1) / (1 + 1))$
:= $2 + (((2 - 22) \times (((2 - 22^2) + 2) + 2)) + 2)$
:= $3 + ((3 \times (3 \times (3^{3+3} + 333))) + 3)$
:= $4 + ((4 \times (((4 - 4/4) + 4)^4)) - 44)$
:= $((5 + 5) \times ((5 - 5/5)^5 - 5)) - (5^5 + 5)/5$
:= $66 + (66 \times (6 + 6) \times (6 + 6) - 6)$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7)) + ((7 + 7)/7))$
:= $8 \times 8 \times (88 - 8) + (8888 / ((8 + 8)/8))$
:= $9 + ((9 \times ((9 \times (99 + 9 + 9)) + 9)) - ((9 + 9 + 9)/9))$
- 9565 := $(1 + (11 \times (11 + ((1 + 11)^{1+1+1}))) / (1 + 1))$
:= $2 + (((22 + 2) \times ((22 - 2)^2 - 2)) + 22/2)$
:= $3 + (((3 \times (3 \times (3^{3+3} + 333))) + 3/3) + 3)$
:= $4 + (((4 \times (((4 - 4/4) + 4)^4)) - 44) + 4/4)$
:= $5 \times 5 + ((5 + 5 + 5) \times ((55 + 5^5)/5))$
:= $(6 + 6) \times (66 \times (6 + 6) + 6) - 66/6$
:= $7 + ((77/7 + 7) \times (7 \times 77 - (7/7 + 7)))$
:= $8 + ((88/8 + 8) \times (8 \times 8 \times 8 - (8/8 + 8)))$
:= $9 + ((9 \times ((9 \times (99 + 9 + 9)) + 9)) - ((9 + 9)/9))$
- 9566 := $1 + ((1 + (11 \times (11 + ((1 + 11)^{1+1+1})))) / (1 + 1))$
:= $(2^{2+2} \times (((22 + 2)^2) + 22)) - 2$
:= $3 + ((3 \times (33/3 + 3)^3) + (33/3)^3)$
:= $((4 + 4) \times (4 \times (44 + 4^4) - 4)) - (4 + 4)/4$
:= $((5 - 5^5)/5) + ((5 + 5) \times ((5 - 5/5)^5 - 5))$
:= $(6 - 66)/6 + (6 + 6) \times (66 \times (6 + 6) + 6)$
:= $77/7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7))$
:= $8 + ((8888 - 8)/8 + 88 \times (88 + 8))$
:= $9 + ((9/9 + 9 + 9) \times (((9 + 9)/9)^9 - 9))$
- 9567 := $(1 + 1 + 1) \times (((1 + 1) \times (11 \times (1 + (1 + 11)^{1+1}))) - 1)$
:= $(22^2 \times (22 - 2)) - (222/2 + 2)$
:= $3 \times ((3 \times (3^{3+3} + 333)) + 3)$
:= $((4 + 4) \times (4 \times (44 + 4^4) - 4)) - 4/4$
:= $5 \times 5 \times 55 + ((5 + 5)/5)^{(55+5+5)/5}$
:= $6 + (((6/6 + 6 + 6) \times (((6 \times 6 / (6 + 6))^6) + 6)) + 6)$
:= $(77 + 7)/7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) - 7))$
:= $8 + (8888/8 + 88 \times (88 + 8))$
:= $9 + (9 \times ((9 \times (99 + 9 + 9)) + 9))$

- 9568 := $(1+1) \times (11 + (111 \times (((1+1) \times (11+11)) - 1)))$
:= $2^{2+2} \times (((22+2)^2) + 22)$
:= $3/3 + (3 \times ((3 \times (3^{3+3} + 333)) + 3))$
:= $(4+4) \times (4 \times (44+4^4) - 4)$
:= $((5+5)/5)^5 \times (5 \times (55+5) - 5/5)$
:= $((6+6)/6)^6 + 66 \times (6+6) \times (6+6)$
:= $7 + (((7 \times ((7 \times (7+7) \times (7+7)) - 7)) - 7/7) + 7)$
:= $((88/8+8) \times (8 \times 8 \times 8 - 8)) - 8$
:= $9 + ((9 \times ((9 \times (99+9+9)) + 9)) + 9/9)$
- 9573 := $(1+1+1) \times (1 + ((1+1) \times (11 \times (1 + (1+11)^{1+1}))))$
:= $2 + (((22^2 \times (22-2)) - 222/2) + 2)$
:= $3 + ((3-333) \times ((3/3-33) + 3))$
:= $4/4 + (4 \times (((4-4/4) + 4)^4) - (4+4))$
:= $5 + (((5+5)/5)^5 \times (5 \times (55+5) - 5/5))$
:= $(6+6) \times (66 \times (6+6) + 6) - 6 \times 6/(6+6)$
:= $7 + ((7 \times ((7 \times (7+7) \times (7+7)) - 7)) + (77/7))$
:= $8 \times 88 + (8888 - (88/8+8))$
:= $99 + ((9 \times (9 \times (99+9+9))) - ((9+9+9)/9))$
- 9578 := $1 + (((111^{1+1}) - (1+1+1+11))^{1+1+1})$
:= $((22+2) \times (22-2)^2) - 22$
:= $3 + (((3^3-3) \times ((33 \times (3 \times 3+3)) + 3)) - 3/3)$
:= $(4-44)/4 + (4 \times (((4-4/4) + 4)^4) - 4)$
:= $5 + (((5+5)/5)^5 \times (5 \times (55+5) - 5/5)) + 5$
:= $(6+6)/6 + (6+6) \times (66 \times (6+6) + 6)$
:= $(7+7)/7 + ((77+7 \times 7) \times (77-7/7))$
:= $8 + ((8/8-88) \times ((8-888)/8))$
:= $9 + ((9 \times ((9 \times (99+9+9)) + 9)) + (99/9))$
- 9569 := $((111-1) \times (111 - ((1+1) \times (1+11)))) - 1$
:= $(22^2 \times (22-2)) - 222/2$
:= $33/3 + (3 \times (3 \times (3^{3+3} + 333)))$
:= $4/4 + ((4+4) \times (4 \times (44+4^4) - 4))$
:= $(5 \times (55 \times ((5 \times 5+5) + 5))) - (55+5/5)$
:= $66 + (66 \times (6+6) \times (6+6) - 6/6)$
:= $7 + ((7 \times ((7 \times (7+7) \times (7+7)) - 7)) + 7)$
:= $((88-8/8) \times 888/8) - 88$
:= $99/9 + (9 \times ((9 \times (99+9+9)) + 9))$
- 9574 := $(1+1) \times (((1+11) \times (((1+1) \times (11-1))^{1+1} - 1)) - 1)$
:= $22 + ((22+2) \times ((22-2)^2 - 2))$
:= $3 + (((3 \times 33 - 3/3)^{3-3/3}) - 33)$
:= $(4+4)/4 + (4 \times (((4-4/4) + 4)^4) - (4+4))$
:= $(5 \times ((55 \times ((5 \times 5+5) + 5)) - (5+5))) - 5/5$
:= $(6+6) \times (66 \times (6+6) + 6) - (6+6)/6$
:= $(77 \times (77+7 \times 7)) - ((7+7)/7)^7$
:= $((88/8+8) \times (8 \times 8 \times 8 - 8)) - (8+8)/8$
:= $99 + ((9 \times (9 \times (99+9+9))) - ((9+9)/9))$
- 9579 := $((11 \times (11-1-1))^{1+1}) - (1+1) \times 111$
:= $((22/2)^2 - 22)^2 - 222$
:= $3 + ((3^3-3) \times ((33 \times (3 \times 3+3)) + 3))$
:= $4^4 + ((44 \times (4^4 - 44)) - (4/4+4))$
:= $((55/5+5) \times ((5^5-5)/5 - 5 \times 5)) - 5$
:= $(6 \times 6/(6+6)) + (6+6) \times (66 \times (6+6) + 6)$
:= $(7 \times (7 \times (7+7) \times (7+7))) - (77/7+7+7)$
:= $8 + (((8/8-88) \times ((8-888)/8)) + 8/8)$
:= $999/9 + ((9 \times (9 \times (99+9+9))) - 9)$
- 9570 := $(111-1) \times (111 - ((1+1) \times (1+11)))$
:= $2 + (2^{2+2} \times (((22+2)^2) + 22))$
:= $(3-333) \times ((3/3-33) + 3)$
:= $(4+4)/4 + ((4+4) \times (4 \times (44+4^4) - 4))$
:= $55 \times ((5 \times ((5 \times 5+5) + 5)) - 5/5)$
:= $66 + 66 \times (6+6) \times (6+6)$
:= $7 + (((7 \times ((7 \times (7+7) \times (7+7)) - 7)) + 7/7) + 7)$
:= $(8/8-88) \times ((8-888)/8)$
:= $99/9 \times (9 \times 99 - ((99+9)/9+9))$
- 9575 := $1111 + ((11 + (11-1-1)^{1+1})^{1+1})$
:= $(2222/2) + ((2 \times (2 \times 22+2))^2)$
:= $((3^3-3) \times ((33 \times (3 \times 3+3)) + 3)) - 3/3$
:= $4 + ((4 \times (((4-4/4) + 4)^4) - (4+4)) - 4/4)$
:= $5 \times ((55 \times ((5 \times 5+5) + 5)) - (5+5))$
:= $(6+6) \times (66 \times (6+6) + 6) - 6/6$
:= $((77+7 \times 7) \times (77-7/7)) - 7/7$
:= $((88/8+8) \times (8 \times 8 \times 8 - 8)) - 8/8$
:= $99 + ((9 \times (9 \times (99+9+9))) - 9/9)$
- 9580 := $1 + (((11 \times (11-1-1))^{1+1}) - (1+1) \times 111)$
:= $2 + (((22+2) \times (22-2)^2) - 22)$
:= $3 + (((3 \times 33 - 3/3)^{3-3/3}) - 3^3)$
:= $4^4 + ((44 \times (4^4 - 44)) - 4)$
:= $5 + (5 \times ((55 \times ((5 \times 5+5) + 5)) - (5+5)))$
:= $6 + ((6+6) \times (66 \times (6+6) + 6) - ((6+6)/6))$
:= $(77/7-7) \times ((7 \times 7 \times 7 - 7) + 7/7)$
:= $8 \times 88 + (8888 - ((88+8)/8))$
:= $(99 \times (99+9)) - (9999+9)/9$
- 9571 := $1 + ((111-1) \times (111 - ((1+1) \times (1+11))))$
:= $2 + ((22^2 \times (22-2)) - 222/2)$
:= $((3 \times 33 - 3/3)^{3-3/3}) - 33$
:= $(4 \times (((4-4/4) + 4)^4) - (4+4)) - 4/4$
:= $5/5 + (55 \times ((5 \times ((5 \times 5+5) + 5)) - 5/5))$
:= $66 + (66 \times (6+6) \times (6+6) + 6/6)$
:= $7 + (((7 \times ((7 \times (7+7) \times (7+7)) - 7)) + ((7+7)/7)) + 7)$
:= $8/8 + ((8/8-88) \times ((8-888)/8))$
:= $9 \times (9+9) + ((99 - (9+9)/9))^{(9+9)/9}$
- 9576 := $(1+1) \times ((1+11) \times (((1+1) \times (11-1))^{1+1} - 1))$
:= $(22+2) \times ((22-2)^2 - 2/2)$
:= $(3^3-3) \times ((33 \times (3 \times 3+3)) + 3)$
:= $4 + (4 \times (((4-4/4) + 4)^4) - (4+4))$
:= $(5/5+5)^5 + (5 \times 5+5) \times (55+5)$
:= $(6+6) \times (66 \times (6+6) + 6)$
:= $(77+7 \times 7) \times (77-7/7)$
:= $(88/8+8) \times (8 \times 8 \times 8 - 8)$
:= $99 + (9 \times (9 \times (99+9+9)))$
- 9581 := $11 \times (1111 - ((1+1) \times (11^{1+1} - 1)))$
:= $2 + (((22/2)^2 - 22)^2) - 222$
:= $33 + ((3/3+3+3) \times ((33/3)^3 + 33))$
:= $4 + ((4 \times (((4-4/4) + 4)^4) - 4) - 44/4)$
:= $5 + ((5 \times 5+5) \times (55+5) + (5/5+5)^5)$
:= $6 + ((6+6) \times (66 \times (6+6) + 6) - 6/6)$
:= $7 + ((77 \times (77+7 \times 7)) - ((7+7)/7)^7)$
:= $8 \times 88 + (8888 - (88/8))$
:= $99/9 \times (9 \times 99 - (99/9+9))$
- 9572 := $1 + (1 + ((111-1) \times (111 - ((1+1) \times (1+11))))$
:= $2 + ((2^{2+2} \times (((22+2)^2) + 22)) + 2)$
:= $(33/3)^3 + (3 \times ((33/3+3)^3 + 3))$
:= $4 \times (((4-4/4) + 4)^4) - (4+4)$
:= $(5+5)/5 + (55 \times ((5 \times ((5 \times 5+5) + 5)) - 5/5))$
:= $66 + (66 \times (6+6) \times (6+6) + ((6+6)/6))$
:= $(77/7-7) \times (7 \times 7 \times 7 - (7/7+7))$
:= $(8+8)/8 + ((8/8-88) \times ((8-888)/8))$
:= $(99 \times (99+9)) - (9999/9+9)$
- 9577 := $(111^{1+1}) - (1+1+1+11)^{1+1+1}$
:= $2/2 + ((22+2) \times ((22-2)^2 - 2/2))$
:= $((3 \times 33 - 3/3)^{3-3/3}) - 3^3$
:= $(4 \times (((4-4/4) + 4)^4) - 4) - 44/4$
:= $5/5 + ((5 \times 5+5) \times (55+5) + (5/5+5)^5)$
:= $6/6 + (6+6) \times (66 \times (6+6) + 6)$
:= $7/7 + ((77+7 \times 7) \times (77-7/7))$
:= $8/8 + ((88/8+8) \times (8 \times 8 \times 8 - 8))$
:= $9/9 + ((9 \times (9 \times (99+9+9))) + 99)$
- 9582 := $((111-1-1-11)^{1+1}) - 11 - 11$
:= $((2 \times 2 \times (22+2) + 2)^2) - 22$
:= $(3 \times (3 \times 33 \times 33)) - ((3+3)^3 + 3)$
:= $4^4 + ((44 \times (4^4 - 44)) - (4+4)/4)$
:= $5^5 + (55/5 \times (((5+5)/5)^5 + 555))$
:= $6 + (6+6) \times (66 \times (6+6) + 6)$
:= $7 + (((77+7 \times 7) \times (77-7/7)) - 7/7)$
:= $8 \times 88 + ((8-88)/8 + 8888)$
:= $99 \times 99 - ((999/9+99) + 9)$

$$\begin{aligned}
\blacktriangleright 9583 &:= 1 + (((111 - 1 - 1 - 11)^{1+1}) - (11 + 11)) \\
&:= 2/2 + (((2 \times 2 \times (22 + 2) + 2)^2) - 22) \\
&:= 333 + (((3 \times (3 + 3)) + 3)^3) - 33/3 \\
&:= 4^4 + ((44 \times (4^4 - 44)) - 4/4) \\
&:= ((5 + 5)/5 + 5) \times (5 \times 5 \times 55 - (5/5 + 5)) \\
&:= 6 + ((6 + 6) \times (66 \times (6 + 6) + 6) + 6/6) \\
&:= 7 + ((77 + 7 \times 7) \times (77 - 7/7)) \\
&:= 8 \times 88 + (8888 - (8/8 + 8)) \\
&:= (((9 + 9)/9)^9) + (9 \times (999 + 9) - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9584 &:= (1 + 1)^{1+1+1} \times ((11 \times (111 - 1 - 1)) - 1) \\
&:= 2 + (((2 \times 2 \times (22 + 2) + 2)^2) - 22) \\
&:= ((3 - 3/3)^{3 \times 3}) + (3^3 \times (333 + 3)) \\
&:= 4 \times (((4 + 4) \times (44 + 4^4)) - 4) \\
&:= (55/5 + 5) \times ((5^5 - 5)/5 - 5 \times 5) \\
&:= 6 + ((6 + 6) \times (66 \times (6 + 6) + 6) + ((6 + 6)/6)) \\
&:= 7 + (((77 + 7 \times 7) \times (77 - 7/7)) + 7/7) \\
&:= 8 \times 88 + (8888 - 8) \\
&:= (((9 + 9)/9)^9) + 9 \times (999 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9585 &:= 1 + ((1 + 1)^{1+1+1} \times ((11 \times (111 - 1 - 1)) - 1)) \\
&:= 2 + (((2 \times 2 \times (22 + 2) + 2)^2) - 22) + 2/2 \\
&:= 3 \times ((33 \times (3 \times 33 - 3)) + 3^3) \\
&:= 4/4 + ((44 \times (4^4 - 44)) + 4^4) \\
&:= (5 + 5 + 5) \times (((5^5 - 5)/5 + 5) + 5) \\
&:= 6 + ((6 + 6) \times (66 \times (6 + 6) + 6) + (6 \times 6/(6 + 6))) \\
&:= (((7 + 7)/7)^7 + 7) \times ((7/7 - 7) + 77) \\
&:= 8/8 + ((8888 - 8) + 8 \times 88) \\
&:= 9 + ((9 \times (9 \times (99 + 9 + 9))) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9586 &:= 1 + (1 + ((1 + 1)^{1+1+1} \times ((11 \times (111 - 1 - 1)) - 1))) \\
&:= (2 \times ((22 \times (222 - 2 - 2)) - 2)) - 2 \\
&:= 3/3 + (3 \times ((33 \times (3 \times 33 - 3)) + 3^3)) \\
&:= (4 \times (((4 - 4/4) + 4)^4) - 4) - (4 + 4)/4 \\
&:= 55 \times 55 + ((5 - 5/5 + 5)^{5-5/5}) \\
&:= ((66 - 6)/6) + (6 + 6) \times (66 \times (6 + 6) + 6) \\
&:= (7 \times (7 \times (7 + 7) \times (7 + 7))) - (77/7 + 7) \\
&:= 8 + (((8/8 - 88) \times ((8 - 888)/8)) + 8) \\
&:= ((99 - 9/9)^{(9+9)/9}) - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9587 &:= ((1 + 11) \times (((1 + 1) \times ((1 + 1) \times (11 - 1))^{1+1}) - 1)) - 1 \\
&:= ((22 + 2) \times (22 - 2)^2) - (22/2 + 2) \\
&:= 3 + ((3^3 \times (333 + 3)) + ((3 - 3/3)^{3 \times 3})) \\
&:= (4 \times (((4 - 4/4) + 4)^4) - 4) - 4/4 \\
&:= 5^5 + ((5 + 5)/5 \times ((555/5 - 5) + 5^5)) \\
&:= 66/6 + (6 + 6) \times (66 \times (6 + 6) + 6) \\
&:= 77/7 + ((77 + 7 \times 7) \times (77 - 7/7)) \\
&:= 88/8 + ((88/8 + 8) \times (8 \times 8 \times 8 - 8)) \\
&:= 9/9 + (((99 - 9/9)^{(9+9)/9}) - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9588 &:= (1 + 11) \times (((1 + 1) \times ((1 + 1) \times (11 - 1))^{1+1}) - 1) \\
&:= 2 \times ((22 \times (222 - 2 - 2)) - 2) \\
&:= 3 + (3 \times ((33 \times (3 \times 33 - 3)) + 3^3)) \\
&:= 4 \times (((4 - 4/4) + 4)^4) - 4 \\
&:= 5 + (((5 + 5)/5 + 5) \times (5 \times 5 \times 55 - (5/5 + 5))) \\
&:= 6 + ((6 + 6) \times (66 \times (6 + 6) + 6) + 6) \\
&:= ((7 + 7)/7) \times (7 \times 7 \times 7 \times (7 + 7) - (7/7 + 7)) \\
&:= 8 \times 88 + (8888 - 8 \times 8/(8 + 8)) \\
&:= 999/9 + (9 \times (9 \times (99 + 9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9589 &:= (1 + (1 + 1) \times 111) \times (((1 + 1) \times (11 + 11)) - 1) \\
&:= ((2 \times 22) - 2/2) \times (222 + 2/2) \\
&:= 3 + ((3 \times ((33 \times (3 \times 33 - 3)) + 3^3)) + 3/3) \\
&:= 4/4 + (4 \times (((4 - 4/4) + 4)^4) - 4) \\
&:= 5 + ((55/5 + 5) \times ((5^5 - 5)/5 - 5 \times 5)) \\
&:= 6 + (((6 + 6) \times (66 \times (6 + 6) + 6) + 6/6) + 6) \\
&:= (7 \times (7 \times (7 + 7) \times (7 + 7))) - (7/7 + 7 + 7) \\
&:= ((8 + 8) \times (8 \times 8 \times 8 + 88)) - 88/8 \\
&:= ((999 + 9)/9) + (9 \times (9 \times (99 + 9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9590 &:= 1 + ((1 + (1 + 1) \times 111) \times (((1 + 1) \times (11 + 11)) - 1)) \\
&:= (2 \times (22 \times (222 - 2 - 2))) - 2 \\
&:= 333 + (((3 \times (3 + 3)) + 3)^3) - (3/3 + 3) \\
&:= (4 + 4)/4 + (4 \times (((4 - 4/4) + 4)^4) - 4) \\
&:= ((5 + 5)/5 + 5) \times (5 \times 5 \times 55 - 5) \\
&:= 6 + (((6 + 6) \times (66 \times (6 + 6) + 6) + ((6 + 6)/6)) + 6) \\
&:= (7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7/7) \\
&:= 8 \times 88 + (8888 - ((8 + 8)/8)) \\
&:= 9 + ((99/9) \times (9 \times 99 - (99/9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9591 &:= ((111 - 1 - 1 - 11)^{1+1}) - 1 - 1 - 11 \\
&:= (2 \times (22 \times (222 - 2 - 2))) - 2/2 \\
&:= 333 + (((3 \times (3 + 3)) + 3)^3) - 3 \\
&:= 4 + ((4 \times (((4 - 4/4) + 4)^4) - 4) - 4/4) \\
&:= 5/5 + (((5 + 5)/5 + 5) \times (5 \times 5 \times 55 - 5)) \\
&:= 6 \times 6 + ((6/6 + 6 + 6) \times (((6 \times 6/(6 + 6))^6) + 6)) \\
&:= 7/7 + ((7 + 7) \times ((7 \times 7 \times (7 + 7)) - 7/7)) \\
&:= 8 \times 88 + (8888 - 8/8) \\
&:= 99 \times 99 - (999/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9592 &:= 11 \times ((1 + 1)^{1+1+1} \times (111 - 1 - 1)) \\
&:= 2 \times (22 \times (222 - 2 - 2)) \\
&:= 3/3 + (((3 \times (3 + 3)) + 3)^3) - 3 + 333 \\
&:= 4 + (4 \times (((4 - 4/4) + 4)^4) - 4) \\
&:= 55 + ((5 - (5 + 5)/5) \times ((55 - 5/5) + 5^5)) \\
&:= 6 + ((6 + 6) \times (66 \times (6 + 6) + 6) + ((66 - 6)/6)) \\
&:= (7 \times (7 \times (7 + 7) \times (7 + 7))) - (77 + 7/7) \\
&:= 8 \times 88 + 8888 \\
&:= 99/9 \times (9 \times 99 - (9/9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9593 &:= ((111 - 1 - 1 - 11)^{1+1}) - 11 \\
&:= 2/2 + (2 \times (22 \times (222 - 2 - 2))) \\
&:= 333 + (((3 \times (3 + 3)) + 3)^3) - 3/3 \\
&:= (4 \times (((4 - 4/4) + 4)^4)) - 44/4 \\
&:= (5 \times (55 \times ((5 \times 5 + 5) + 5))) - ((5 + 5)/5)^5 \\
&:= 6 + ((6 + 6) \times (66 \times (6 + 6) + 6) + (66/6)) \\
&:= (7 \times (7 \times (7 + 7) \times (7 + 7))) - 77/7 \\
&:= 8/8 + (8888 + 8 \times 88) \\
&:= 9 + (9 \times (999 + 9) + ((9 + 9)/9)^9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9594 &:= 1 + (((111 - 1 - 1 - 11)^{1+1}) - 11) \\
&:= 2 + (2 \times (22 \times (222 - 2 - 2))) \\
&:= 333 + (((3 \times (3 + 3)) + 3)^3) \\
&:= (4 - 44)/4 + (4 \times (((4 - 4/4) + 4)^4)) \\
&:= (5 \times ((55 + 5) \times ((5 + 5)/5)^5)) - (5/5 + 5) \\
&:= 6 + (((6 + 6) \times (66 \times (6 + 6) + 6) + 6) + 6) \\
&:= ((7 - 77)/7) + (7 \times (7 \times (7 + 7) \times (7 + 7))) \\
&:= (8 + 8)/8 + (8888 + 8 \times 88) \\
&:= (99 + 9 + 9) \times (9/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9595 &:= 1 + (1 + (((111 - 1 - 1 - 11)^{1+1}) - 11)) \\
&:= 2 + ((2 \times (22 \times (222 - 2 - 2))) + 2/2) \\
&:= 3/3 + (((3 \times (3 + 3)) + 3)^3) + 333 \\
&:= (4 \times (((4 - 4/4) + 4)^4)) - (4/4 + 4 + 4) \\
&:= (5 \times ((55 + 5) \times ((5 + 5)/5)^5)) - 5 \\
&:= 6 + (((6 + 6) \times (66 \times (6 + 6) + 6) + 6/6) + 6) + 6 \\
&:= (7 \times (7 \times (7 + 7) \times (7 + 7))) - ((7 + 7)/7 + 7) \\
&:= (88/8 + 8) \times ((8 \times 8 \times 8 - 8) + 8/8) \\
&:= ((99 - 9/9)^{(9+9)/9}) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9596 &:= 1 + (1 + (1 + (((111 - 1 - 1 - 11)^{1+1}) - 11))) \\
&:= 2 \times ((22 \times (222 - 2 - 2)) + 2) \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) - 3/3 + 333 \\
&:= (4 \times (((4 - 4/4) + 4)^4)) - 4 - 4 \\
&:= 5/5 + ((5 \times ((55 + 5) \times ((5 + 5)/5)^5)) - 5) \\
&:= 6 + (((6 + 6) \times (66 \times (6 + 6) + 6) + ((6 + 6)/6)) + 6) + 6 \\
&:= (7 \times (7 \times (7 + 7) \times (7 + 7))) - (77/7 + 7) \\
&:= (((8 + 8)/8 + 88) + 8)^{(8+8)/8} - 8 \\
&:= 9/9 + (((99 - 9/9)^{(9+9)/9}) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9597 &:= ((1 + 1) \times (((1 + 11) \times ((1 + 1) \times (11 - 1))^{1+1}) - 1)) - 1 \\
&:= ((22 + 2) \times (22 - 2)^2) - 2/2 - 2 \\
&:= 3 + (((3 \times (3 + 3)) + 3)^3) + 333 \\
&:= 4 + ((4 \times (((4 - 4/4) + 4)^4)) - 44/4) \\
&:= 5^5 + ((5 + 5)/5 \times (555/5 + 5^5)) \\
&:= (6/6 + 6) \times ((6 \times (6 \times 6 \times 6 - 6)) + 666/6) \\
&:= (7 \times (7 \times (7 + 7) \times (7 + 7))) - 7 \\
&:= 8 + (((8 + 8) \times (8 \times 8 \times 8 + 88)) - (88/8)) \\
&:= 9 + ((9 \times (9 \times (99 + 9 + 9))) + 999/9)
\end{aligned}$$

- 9598 := $(1+1) \times (((1+11) \times ((1+1) \times (11-1))^{1+1}) - 1)$
:= $(22+2) \times (22-2)^2 - 2$
:= $(3 \times 33 - 3/3)^{3-3/3} - 3 - 3$
:= $4 \times (((4-4/4) + 4^4)) - ((4+4)/4 + 4)$
:= $5 \times ((55+5) \times ((5+5)/5)^5) - (5+5)/5$
:= $((666-6)/6) - (6+6)^{(6+6)/6} - 6$
:= $7/7 + ((7 \times (7 \times (7+7) \times (7+7))) - 7)$
:= $(8+8) \times (8 \times 8 \times 8 + 88) - (8+8)/8$
:= $9 + ((9 \times (9 \times (99+9+9))) + ((999+9)/9))$
- 9599 := $((1+1) \times ((1+11) \times ((1+1) \times (11-1))^{1+1})) - 1$
:= $(22+2) \times (22-2)^2 - 2/2$
:= $((3^3 - 3/3) + 3) \times ((333-3) + 3/3)$
:= $4 \times (((4-4/4) + 4^4)) - 4/4 - 4$
:= $5 \times ((55+5) \times ((5+5)/5)^5) - 5/5$
:= $66666/6 - 6 \times 6 \times (6 \times 6 + 6)$
:= $(7+7)/7 + ((7 \times (7 \times (7+7) \times (7+7))) - 7)$
:= $(8+8) \times (8 \times 8 \times 8 + 88) - 8/8$
:= $9999 - ((99/9 + 9)^{(9+9)/9})$
- 9600 := $(1+1) \times ((1+11) \times ((1+1) \times (11-1))^{1+1})$
:= $(22+2) \times (22-2)^2$
:= $(33-3/3) \times (3 \times 3 \times 33 + 3)$
:= $4 \times ((4+4) \times (44+4^4))$
:= $5 \times ((55+5) \times ((5+5)/5)^5)$
:= $((6+6)/6)^6 \times ((6+6) \times (6+6) + 6)$
:= $((7+7)/7)^7 \times (77 - (7+7)/7)$
:= $(8+8) \times (8 \times 8 \times 8 + 88)$
:= $(9 \times 9 - 9/9) \times (999/9 + 9)$
- 9601 := $((111-1-1-11)^{1+1}) - 1 - 1 - 1$
:= $2/2 + ((22+2) \times (22-2)^2)$
:= $((3 \times 33 - 3/3)^{3-3/3}) - 3$
:= $4/4 + (4 \times ((4+4) \times (44+4^4)))$
:= $5/5 + (5 \times ((55+5) \times ((5+5)/5)^5))$
:= $6/6 + (((6+6)/6)^6 \times ((6+6) \times (6+6) + 6))$
:= $(7 \times (7 \times (7+7) \times (7+7))) - (7+7+7)/7$
:= $8/8 + ((8+8) \times (8 \times 8 \times 8 + 88))$
:= $(99 \times (99 - ((9+9)/9))) - (9+9)/9$
- 9602 := $((111-1-1-11)^{1+1}) - 1 - 1$
:= $2 + ((22+2) \times (22-2)^2)$
:= $(33 \times (3 \times (3 \times 33 - 3) + 3)) - 3/3$
:= $4 \times (((4-4/4) + 4^4)) - (4+4)/4$
:= $(5+5)/5 + (5 \times ((55+5) \times ((5+5)/5)^5))$
:= $(6+6)/6 + (((6+6)/6)^6 \times ((6+6) \times (6+6) + 6))$
:= $(7 \times (7 \times (7+7) \times (7+7))) - (7+7)/7$
:= $(8+8)/8 + ((8+8) \times (8 \times 8 \times 8 + 88))$
:= $(99 \times (99 - ((9+9)/9))) - 9/9$
- 9603 := $((111-1-1-11)^{1+1}) - 1$
:= $(2 \times 2 \times (22+2) + 2)^2 - 2/2$
:= $33 \times (3 \times (3 \times 33 - 3) + 3)$
:= $4 \times (((4-4/4) + 4^4)) - 4/4$
:= $5 + ((5 \times ((55+5) \times ((5+5)/5)^5)) - ((5+5)/5))$
:= $66/6 \times (((6 \times 6)/(6+6))^6) + (6+6) \times (6+6)$
:= $(7 \times (7 \times (7+7) \times (7+7))) - 7/7$
:= $88/8 + (8888 + 8 \times 88)$
:= $99 \times (99 - ((9+9)/9))$
- 9604 := $(111-1-1-11)^{1+1}$
:= $(2 \times 2 \times (22+2) + 2)^2$
:= $(3 \times 33 - 3/3)^{3-3/3}$
:= $4 \times (((4-4/4) + 4^4))$
:= $(5-5/5) \times (((5+5)/5 + 5)^{5-5/5})$
:= $((666-6)/6) - (6+6)^{(6+6)/6}$
:= $7 \times (7 \times (7+7) \times (7+7))$
:= $((8+8)/8 + 88) + 8^{(8+8)/8}$
:= $(99-9/9)^{(9+9)/9}$
- 9605 := $1 + ((111-1-1-11)^{1+1})$
:= $2/2 + ((2 \times 2 \times (22+2) + 2)^2)$
:= $3/3 + ((3 \times 33 - 3/3)^{3-3/3}) + 3$
:= $4/4 + (4 \times (((4-4/4) + 4^4))$
:= $5 + (5 \times ((55+5) \times ((5+5)/5)^5))$
:= $6 + (66666/6 - 6 \times 6 \times (6 \times 6 + 6))$
:= $7/7 + (7 \times (7 \times (7+7) \times (7+7)))$
:= $8/8 + (((8+8)/8 + 88) + 8)^{(8+8)/8}$
:= $9/9 + ((99-9/9)^{(9+9)/9})$
- 9606 := $1 + (1 + ((111-1-1-11)^{1+1}))$
:= $2 + ((2 \times 2 \times (22+2) + 2)^2)$
:= $3 + (33 \times (3 \times (3 \times 33 - 3) + 3))$
:= $(4+4)/4 + (4 \times (((4-4/4) + 4^4))$
:= $5 + ((5 \times ((55+5) \times ((5+5)/5)^5)) + 5/5)$
:= $6 + (((6+6)/6)^6 \times ((6+6) \times (6+6) + 6))$
:= $(7+7)/7 + (7 \times (7 \times (7+7) \times (7+7)))$
:= $8 + (((8+8) \times (8 \times 8 \times 8 + 88)) - ((8+8)/8))$
:= $(9+9)/9 + ((99-9/9)^{(9+9)/9})$
- 9607 := $1 + (1 + (1 + ((111-1-1-11)^{1+1})))$
:= $2 + (((2 \times 2 \times (22+2) + 2)^2) + 2/2)$
:= $3 + ((3 \times 33 - 3/3)^{3-3/3})$
:= $4 + ((4 \times (((4-4/4) + 4^4)) - 4/4)$
:= $5 + ((5 \times ((55+5) \times ((5+5)/5)^5)) + ((5+5)/5))$
:= $6 + (((6+6)/6)^6 \times ((6+6) \times (6+6) + 6)) + 6/6$
:= $7 + (((7+7)/7)^7 \times (77 - (7+7)/7))$
:= $8 + (((8+8) \times (8 \times 8 \times 8 + 88)) - 8/8)$
:= $((9+9+9)/9) + ((99-9/9)^{(9+9)/9})$
- 9608 := $1 + (1 + (1 + (1 + ((111-1-1-11)^{1+1}))))$
:= $2 + (((2 \times 2 \times (22+2) + 2)^2) + 2)$
:= $3 + (((3 \times 33 - 3/3)^{3-3/3}) + 3/3)$
:= $4 + (4 \times (((4-4/4) + 4^4))$
:= $(5-5/5) \times (((5+5)/5 + 5)^{5-5/5}) + 5/5$
:= $((666-6)/6) + (66 \times (6+6) \times (6+6) - 6)$
:= $77/7 + ((7 \times (7 \times (7+7) \times (7+7))) - 7)$
:= $8 + ((8+8) \times (8 \times 8 \times 8 + 88))$
:= $(9-9/9) \times ((9999/9 + 9 \times 9) + 9)$
- 9609 := $((11-1) \times ((1 + ((11-1) \times (1+1+1)))^{1+1})) - 1$
:= $2 + (((2 \times 2 \times (22+2) + 2)^2) + 2/2) + 2$
:= $3 + ((33 \times (3 \times (3 \times 33 - 3) + 3)) + 3)$
:= $4 + ((4 \times (((4-4/4) + 4^4)) + 4/4)$
:= $5 + ((5-5/5) \times (((5+5)/5 + 5)^{5-5/5}))$
:= $666/6 + (66 \times (6+6) \times (6+6) - 6)$
:= $7 + ((7 \times (7 \times (7+7) \times (7+7))) - ((7+7)/7))$
:= $8 + (((8+8) \times (8 \times 8 \times 8 + 88)) + 8/8)$
:= $9 + ((9 \times 9 - 9/9) \times (999/9 + 9))$
- 9610 := $(11-1) \times ((1 + ((11-1) \times (1+1+1)))^{1+1})$
:= $2 + (((2 \times 2 \times (22+2) + 2)^2) + 2) + 2$
:= $3 + (((3 \times 33 - 3/3)^{3-3/3}) + 3)$
:= $4 + ((4 \times (((4-4/4) + 4^4)) + (4+4)/4)$
:= $5 + ((5 \times ((55+5) \times ((5+5)/5)^5)) + 5)$
:= $6 + (((666-6)/6) - (6+6)^{(6+6)/6})$
:= $7 + ((7 \times (7 \times (7+7) \times (7+7))) - 7/7)$
:= $8 + (((8+8) \times (8 \times 8 \times 8 + 88)) + ((8+8)/8))$
:= $(9/9 + 9) \times (9 \times (99+9) - (99/9))$
- 9611 := $1 + ((11-1) \times ((1 + ((11-1) \times (1+1+1)))^{1+1}))$
:= $22/2 + ((22+2) \times (22-2)^2)$
:= $((33+3) \times ((3 \times 3 \times (3^3+3)) - 3)) - 3/3$
:= $4 + (((4 \times (((4-4/4) + 4^4)) - 4/4) + 4)$
:= $55/5 + (5 \times ((55+5) \times ((5+5)/5)^5))$
:= $6 \times 6 + ((6+6) \times (66 \times (6+6) + 6) - 6/6)$
:= $7 + (7 \times (7 \times (7+7) \times (7+7)))$
:= $88/8 + ((8+8) \times (8 \times 8 \times 8 + 88))$
:= $9 + ((99 \times (99 - ((9+9)/9))) - 9/9)$
- 9612 := $(1+11) \times (1 + ((1+1) \times ((1+1) \times (11-1))^{1+1}))$
:= $(2+2+2) \times ((2 \times (22-2))^2 + 2)$
:= $(33+3) \times ((3 \times 3 \times (3^3+3)) - 3)$
:= $4 + ((4 \times (((4-4/4) + 4^4)) + 4)$
:= $((55+5)/5) + (5 \times ((55+5) \times ((5+5)/5)^5))$
:= $6 \times 6 + (6+6) \times (66 \times (6+6) + 6)$
:= $7 + ((7 \times (7 \times (7+7) \times (7+7))) + 7/7)$
:= $8 + (((8+8)/8 + 88) + 8)^{(8+8)/8}$
:= $9 + (99 \times (99 - ((9+9)/9)))$

- 9613 := $11 + (((111 - 1 - 1 - 11)^{1+1}) - (1 + 1))$
:= $2 + (((22 + 2) \times (22 - 2)^2) + 22/2)$
:= $3 \times 3 + ((3 \times 33 - 3/3)^{3-3/3})$
:= $4 + (((4 \times ((4 - 4/4) + 4^4)) + 4/4) + 4)$
:= $((5 + 5) \times (5 - 5/5)^5) - (5^5 + 5 + 5)/5$
:= $6 \times 6 + ((6 + 6) \times (66 \times (6 + 6) + 6) + 6/6)$
:= $7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) + ((7 + 7)/7))$
:= $8 + (((8 + 8)/8 + 88) + 8)^{(8+8)/8} + 8/8$
:= $9 + ((99 - 9/9)^{(9+9)/9})$
- 9614 := $11 + (((111 - 1 - 1 - 11)^{1+1}) - 1)$
:= $22 \times (((22 - 2/2)^2) - (2 + 2))$
:= $33/3 + (33 \times (3 \times (3 \times 33 - 3) + 3))$
:= $(44 - 4)/4 + (4 \times (((4 - 4/4) + 4^4))$
:= $((5 + 5) \times (5 - 5/5)^5) - (5^5 + 5)/5$
:= $((666 - 6)/6) + 66 \times (6 + 6) \times (6 + 6)$
:= $((77 - 7)/7) + (7 \times (7 \times (7 + 7) \times (7 + 7)))$
:= $88/8 \times ((888 - 8 - 8) + ((8 + 8)/8))$
:= $9 + ((99 - 9/9)^{(9+9)/9}) + 9/9$
- 9615 := $11 + ((111 - 1 - 1 - 11)^{1+1})$
:= $22/2 + ((2 \times 2 \times (22 + 2) + 2)^2)$
:= $3 + ((33 + 3) \times ((3 \times 3 \times (3^3 + 3)) - 3))$
:= $44/4 + (4 \times (((4 - 4/4) + 4^4))$
:= $(5 + 5 + 5) \times (((55 + 5^5)/5) + 5)$
:= $666/6 + 66 \times (6 + 6) \times (6 + 6)$
:= $77/7 + (7 \times (7 \times (7 + 7) \times (7 + 7)))$
:= $(8 - 8/8 + 8) \times (8 \times (88 - 8) + 8/8)$
:= $99/9 + ((99 - 9/9)^{(9+9)/9})$
- 9616 := $1 + (11 + ((111 - 1 - 1 - 11)^{1+1}))$
:= $2 + (22 \times (((22 - 2/2)^2) - (2 + 2)))$
:= $3 + (((3 \times 33 - 3/3)^{3-3/3}) + 3 \times 3)$
:= $4 \times (((4 + 4) \times (44 + 4^4)) + 4)$
:= $((5 - 5^5)/5) + ((5 + 5) \times (5 - 5/5)^5)$
:= $(666 + 6)/6 + 66 \times (6 + 6) \times (6 + 6)$
:= $(77 + 7)/7 + (7 \times (7 \times (7 + 7) \times (7 + 7)))$
:= $8 + (((8 + 8) \times (8 \times 8 \times 8 + 88)) + 8)$
:= $(99 + 9)/9 + ((99 - 9/9)^{(9+9)/9})$
- 9617 := $1 + (1 + (11 + ((111 - 1 - 1 - 11)^{1+1})))$
:= $2 + (((2 \times 2 \times (22 + 2) + 2)^2) + 22/2)$
:= $3 + ((33 \times (3 \times (3 \times 33 - 3) + 3)) + 33/3)$
:= $4/4 + (4 \times (((4 + 4) \times (44 + 4^4)) + 4))$
:= $((5 - 5^5) + 5)/5 + ((5 + 5) \times (5 - 5/5)^5)$
:= $6 + (((6 + 6) \times (66 \times (6 + 6) + 6) - 6/6) + 6 \times 6)$
:= $7 + (((7 \times (7 \times (7 + 7) \times (7 + 7))) - 7/7) + 7)$
:= $(8 \times 8 \times (8 \times 8 + 88)) - 888/8$
:= $9 \times 9 \times 9 + ((9 - 9/9) \times 9999/9)$
- 9618 := $1 + (1 + (1 + (11 + ((111 - 1 - 1 - 11)^{1+1}))))$
:= $((2 - 22) \times (2 - 22^2)) - 22$
:= $3 + (((33 + 3) \times ((3 \times 3 \times (3^3 + 3)) - 3)) + 3)$
:= $(4 \times (((4 - 4/4) + 4^4) + 4)) - (4 + 4)/4$
:= $((5 + 5)/5 + 5) \times (5 \times 5 \times 55 - 5/5)$
:= $6 + ((6 + 6) \times (66 \times (6 + 6) + 6) + 6 \times 6)$
:= $7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) + 7)$
:= $((8 - 888)/8) + (8 \times 8 \times (8 \times 8 + 88))$
:= $9 + (((9 \times 9 - 9/9) \times (999/9 + 9)) + 9)$
- 9619 := $((11 - 1) \times (1 + ((1 + ((11 - 1) \times (1 + 1 + 1))))^{1+1}))$
:= $2/2 + (((2 - 22) \times (2 - 22^2)) - 22)$
:= $3 + (((3 \times 33 - 3/3)^{3-3/3}) + 3 \times 3) + 3)$
:= $(4 \times (((4 - 4/4) + 4^4) + 4)) - 4/4$
:= $(5 \times (55 \times ((5 \times 5 + 5) + 5))) - (5/5 + 5)$
:= $6 + (((6 + 6) \times (66 \times (6 + 6) + 6) + 6 \times 6) + 6/6)$
:= $7 + (((7 \times (7 \times (7 + 7) \times (7 + 7))) + 7/7) + 7)$
:= $8 + (((8 + 8) \times (8 \times 8 \times 8 + 88)) + (88/8))$
:= $9 + ((9/9 + 9) \times (9 \times (99 + 9) - (99/9)))$
- 9620 := $(11 - 1) \times (1 + ((1 + ((11 - 1) \times (1 + 1 + 1))))^{1+1})$
:= $(2 - 22) \times ((2/2 - 22^2) + 2)$
:= $(3^3 - 3/3) \times (((3/3 + 3 + 3)^3) + 3^3)$
:= $4 \times (((4 - 4/4) + 4^4) + 4)$
:= $(5 \times (55 \times ((5 \times 5 + 5) + 5))) - 5$
:= $(66 - 6/6) \times ((666 + 6)/6 + 6 \times 6)$
:= $7 + (((7 \times (7 \times (7 + 7) \times (7 + 7))) + ((7 + 7)/7)) + 7)$
:= $8 + (((8 + 8)/8 + 88) + 8)^{(8+8)/8} + 8$
:= $(9/9 + 9) \times (9 \times (99 + 9) - (9/9 + 9))$
- 9621 := $1 + ((11 - 1) \times (1 + ((1 + ((11 - 1) \times (1 + 1 + 1))))^{1+1}))$
:= $22 + (((22 + 2) \times (22 - 2)^2) - 2/2)$
:= $3 \times (3333 - (3 \times 33 + 3^3))$
:= $4/4 + (4 \times (((4 - 4/4) + 4^4) + 4))$
:= $5/5 + ((5 \times (55 \times ((5 \times 5 + 5) + 5))) - 5)$
:= $6 + (66 \times (6 + 6) \times (6 + 6) + 666/6)$
:= $7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) + ((77 - 7)/7))$
:= $((88/8 + 8) \times (8 \times 8 \times 8 - 8/8)) - 88$
:= $99 \times 99 - (99 + 9 \times 9)$
- 9622 := $(1 + 1) \times (11 + ((1 + 11) \times ((1 + 1) \times (11 - 1))^{1+1}))$
:= $22 + ((22 + 2) \times (22 - 2)^2)$
:= $(3 \times (3 + 3)) + ((3 \times 33 - 3/3)^{3-3/3})$
:= $(4 + 4)/4 + (4 \times (((4 - 4/4) + 4^4) + 4))$
:= $(5 + 5)/5 + ((5 \times (55 \times ((5 \times 5 + 5) + 5))) - 5)$
:= $6 + (66 \times (6 + 6) \times (6 + 6) + (666 + 6)/6)$
:= $7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) + (77/7))$
:= $8 + (88/8 \times ((888 - 8 - 8) + ((8 + 8)/8)))$
:= $9 + (((99 - 9/9)^{(9+9)/9}) + 9)$
- 9623 := $((11 + 11)^{1+1+1}) - (1 + (1 + 1)^{11-1})$
:= $22 + (((22 + 2) \times (22 - 2)^2) + 2/2)$
:= $((3 \times (3 + 3)) + 3)^3 + ((33 \times 33 - 3)/3)$
:= $4 + ((4 \times (((4 - 4/4) + 4^4) + 4)) - 4/4)$
:= $(5 \times (55 \times ((5 \times 5 + 5) + 5))) - (5 + 5)/5$
:= $6 \times 6 + ((6 + 6) \times (66 \times (6 + 6) + 6) + (66/6))$
:= $7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) + (77 + 7)/7)$
:= $8 + ((8 - 8/8 + 8) \times (8 \times (88 - 8) + 8/8))$
:= $9 + (((99 - 9/9)^{(9+9)/9}) + 9/9) + 9$
- 9624 := $((11 + 11)^{1+1+1}) - (1 + 1)^{11-1}$
:= $(22 + 2) \times ((22 - 2)^2 + 2/2)$
:= $3 \times (3333 - (3 - 3/3 + 3)^3)$
:= $4 + (4 \times (((4 - 4/4) + 4^4) + 4))$
:= $(5 \times (55 \times ((5 \times 5 + 5) + 5))) - 5/5$
:= $(6 + 6) \times (66 \times (6 + 6) + ((66 - 6)/6))$
:= $(77 \times (77 + 7 \times 7)) - 7/7 - 77$
:= $8 + (((8 + 8) \times (8 \times 8 \times 8 + 88)) + 8) + 8$
:= $9 + (((99 - 9/9)^{(9+9)/9}) + (99/9))$
- 9625 := $11 \times (11 + (((1 + 11)^{1+1+1})/(1 + 1)))$
:= $22 + (((2 \times 2 \times (22 + 2) + 2)^2) - 2/2)$
:= $((3 \times (3 + 3)) + 3)^3 + ((33 \times 33 + 3)/3)$
:= $4 + ((4 \times (((4 - 4/4) + 4^4) + 4)) + 4/4)$
:= $5 \times (55 \times ((5 \times 5 + 5) + 5))$
:= $(6/6 + 6) \times (((6 \times 6 + 6/6)^{(6+6)/6}) + 6)$
:= $77 \times (777/7 + 7 + 7)$
:= $8 + ((8 \times 8 \times (8 \times 8 + 88)) - 888/8)$
:= $99/9 \times (((9 + 9)/9) - (9 + 9)) + 9 \times 99$
- 9626 := $1 + (11 \times (11 + (((1 + 11)^{1+1+1})/(1 + 1))))$
:= $22 + ((2 \times 2 \times (22 + 2) + 2)^2)$
:= $3 + (((33 \times 33 - 3)/3) + (((3 \times (3 + 3)) + 3)^3))$
:= $4 + ((4 \times (((4 - 4/4) + 4^4) + 4)) + (4 + 4)/4)$
:= $5/5 + (5 \times (55 \times ((5 \times 5 + 5) + 5)))$
:= $6 + ((66 - 6/6) \times ((666 + 6)/6 + 6 \times 6))$
:= $7/7 + (77 \times (777/7 + 7 + 7))$
:= $8 + ((8 \times 8 \times (8 \times 8 + 88)) + ((8 - 888)/8))$
:= $9 + (((9 - 9/9) \times 9999/9) + 9 \times 9 \times 9)$
- 9627 := $1 + (1 + (11 \times (11 + (((1 + 11)^{1+1+1})/(1 + 1))))))$
:= $22 + (((2 \times 2 \times (22 + 2) + 2)^2) + 2/2)$
:= $33 + (((3 \times (3 + 3)) + 3)^3) + 333$
:= $4 + (((4 \times (((4 - 4/4) + 4^4) + 4)) - 4/4) + 4)$
:= $(5 + 5)/5 + (5 \times (55 \times ((5 \times 5 + 5) + 5)))$
:= $6 + ((66 \times (6 + 6) \times (6 + 6) + 666/6) + 6)$
:= $(7 + 7)/7 + (77 \times (777/7 + 7 + 7))$
:= $(88/8 \times ((888 - 8) + 8/8)) - 8 \times 8$
:= $99 \times 99 - ((99 + 9)/9 + 9 \times (9 + 9))$

- 9628 := $(1+1) \times (((1+1+11) \times 1111) - 1) / (1+1+1)$
:= $2 + ((2 \times 2 \times (22+2) + 2)^2) + 22$
:= $(3^3 - 3/3) + 3 \times (333 - 3/3)$
:= $4 + ((4 \times (((4-4/4) + 4)^4) + 4) + 4)$
:= $5 + ((5 \times (55 \times ((5 \times 5 + 5) + 5))) - ((5+5)/5))$
:= $(6 - ((6+6)/6)) \times (((6/6+6)^{6-(6+6)/6}) + 6)$
:= $(77/7 - 7) \times ((7 \times 7 \times 7 \times 7 - 7/7) + 7)$
:= $(88/8 \times (888 - ((88+8)/8))) - 8$
:= $99 \times 99 - (99/9 + 9 \times (9+9))$
- 9633 := $(1+1+11)^{1+1} \times (1 + (1+111)/(1+1))$
:= $2/2 + ((222+2) \times ((2 \times 22) - 2/2))$
:= $3 + ((3^3 + 3) \times (333 - (3 \times 3 + 3)))$
:= $4/4 + ((4+4) \times (4 \times (44+4^4) + 4))$
:= $5 + (((5 \times (55 \times ((5 \times 5 + 5) + 5))) - ((5+5)/5)) + 5)$
:= $(6/6 + 6 + 6) \times (((6 \times 6/(6+6))^6) + 6) + 6)$
:= $7 + ((77 \times (777/7 + 7 + 7)) + 7/7)$
:= $8/8 + ((8 \times 8 \times (8 \times 8 + 88)) - (88+8))$
:= $9 + (((99-9/9)^{(9+9)/9}) + (99/9) + 9)$
- 9638 := $(1+11^{1+1}) \times ((11-1-1)^{1+1} - (1+1))$
:= $((2-22) \times (2-22^2)) - 2$
:= $(3^3 \times ((333-3) + 3^3)) - 3/3$
:= $(4+4)/4 + (4 \times (((4-4/4) + 4)^4) + 4) + 4)$
:= $5 \times 55 + ((5 - (5+5)/5) \times ((5/5-5) + 5^5))$
:= $(6+6)/6 + (66 \times (((666-6)/6) + 6 \times 6))$
:= $((7+7)/7 + 77) \times (777+77)/7$
:= $(88 - (8/8+8)) \times ((888+88)/8)$
:= $99 \times 99 - (9 \times (9+9) + 9/9)$
- 9629 := $(1 + ((1+1) \times ((1+1+11) \times 1111))) / (1+1+1)$
:= $((2-22) \times (2-22^2)) - 22/2$
:= $((3^3 + 3) \times (333 - (3 \times 3 + 3))) - 3/3$
:= $4 + (((4 \times (((4-4/4) + 4)^4) + 4) + 4/4) + 4)$
:= $5 + ((5 \times (55 \times ((5 \times 5 + 5) + 5))) - 5/5)$
:= $(66 \times (((666-6)/6) + 6 \times 6)) - 6/6 - 6$
:= $7 + (((7 \times (7 \times (7+7) \times (7+7))) + (77/7)) + 7)$
:= $(8 \times 8 \times (8 \times 8 + 88)) - (88/8 + 88)$
:= $99 \times 99 - ((9 \times (9+9) + 9/9) + 9)$
- 9634 := $1 + ((1+1+11)^{1+1} \times (1 + (1+111)/(1+1)))$
:= $(22 \times (2 \times (222-2) - 2)) - 2$
:= $3 + (((3 \times 33 - 3/3)^{3-3/3}) + 3^3)$
:= $(4+4)/4 + ((4+4) \times (4 \times (44+4^4) + 4))$
:= $5 + (((5 \times (55 \times ((5 \times 5 + 5) + 5))) - 5/5) + 5)$
:= $66 + (66 \times (6+6) \times (6+6) + ((6+6)/6)^6)$
:= $((7+7)/7)^7 + ((7+7) \times ((7 \times 7 \times (7+7)) - 7))$
:= $8 \times 8 + ((8/8 - 88) \times ((8-888)/8))$
:= $9999 - ((9 \times 9 \times 9 \times 9) / (9+9))$
- 9639 := $(11^{1+1} - (1+1)) \times (11-1-1)^{1+1}$
:= $((2-22) \times (2-22^2)) - 2/2$
:= $3^3 \times ((333-3) + 3^3)$
:= $(4-4/4)^4 \times ((444/4+4) + 4)$
:= $5 \times 555 + (55/5 \times (5^5 - 5)/5)$
:= $6 + ((6/6+6+6) \times (((6 \times 6/(6+6))^6) + 6) + 6)$
:= $((7+7)/7 + 7) \times (77 \times (7+7) - 7)$
:= $(8 \times 8 - 8/8) \times ((8 \times 8 + 88) + 8/8)$
:= $9 \times ((999-9) + 9 \times 9)$
- 9630 := $(1+1) \times (((1+111) \times ((1+1) \times (11+11)) - 1) - 1)$
:= $((222+2) \times ((2 \times 22) - 2/2)) - 2$
:= $(3^3 + 3) \times (333 - (3 \times 3 + 3))$
:= $(4/4 + 4) \times ((4-44)/4 + 44 \times 44)$
:= $5 + (5 \times (55 \times ((5 \times 5 + 5) + 5)))$
:= $(66 \times (((666-6)/6) + 6 \times 6)) - 6$
:= $((7+7)/7 + 7) \times (77 \times (7+7) - (7/7+7))$
:= $(8-8/8+8) \times (8 \times (88-8) + ((8+8)/8))$
:= $(9-99) \times (9/9 - (99+9))$
- 9635 := $(1 + (1+1+1+1)) \times ((1+1)^{11} - 11^{1+1})$
:= $(22 \times (2 \times (222-2) - 2)) - 2/2$
:= $3 + ((3^3 + 3/3) \times (333 + 33/3))$
:= $(4 \times (((4-4/4) + 4)^4) + 4) - 4/4$
:= $5 + ((5 \times (55 \times ((5 \times 5 + 5) + 5))) + 5)$
:= $(66/6 + 6 \times 6) \times (6 \times 6 \times 6 - (66/6))$
:= $((7+7+7)/7)^7 + ((7+7) \times (7 \times 77 - 7))$
:= $8 + ((88/8 \times ((888-8) + 8/8)) - 8 \times 8)$
:= $9999 + ((9-9 \times 9 \times 9) / (9+9))$
- 9640 := $1 + ((11^{1+1} - (1+1)) \times (11-1-1)^{1+1})$
:= $(2-22) \times (2-22^2)$
:= $3/3 + (3^3 \times ((333-3) + 3^3))$
:= $4 + (4 \times (((4-4/4) + 4)^4) + 4) + 4)$
:= $(5+5) \times ((5-5/5)^5 - (55+5))$
:= $((6+6)/6)^6 + (6+6) \times (66 \times (6+6) + 6)$
:= $7/7 + (((7+7)/7 + 7) \times (77 \times (7+7) - 7))$
:= $(8 \times 8 \times (8 \times 8 + 88)) - 88$
:= $9/9 + (9 \times ((999-9) + 9 \times 9))$
- 9631 := $((1+1) \times ((1+111) \times (((1+1) \times (11+11)) - 1))) - 1$
:= $2 + (((2-22) \times (2-22^2)) - 22/2)$
:= $3^3 + ((3 \times 33 - 3/3)^{3-3/3})$
:= $4^4 + ((44/4+4) \times (4/4+4)^4)$
:= $5 + ((5 \times (55 \times ((5 \times 5 + 5) + 5))) + 5/5)$
:= $6 + ((6/6+6) \times (((6 \times 6 + 6/6)^{(6+6)/6}) + 6))$
:= $7 + ((77 \times (77+7 \times 7)) - (7/7+77))$
:= $(8 \times 8 \times (8 \times 8 + 88)) - ((8/8+88) + 8)$
:= $9 + (((99-9/9)^{(9+9)/9}) + 9) + 9)$
- 9636 := $(1+1) \times ((1+1) \times (11 \times (((1+1) \times (111-1)) - 1)))$
:= $22 \times (2 \times (222-2) - 2)$
:= $((3+3)^3 + 3) \times (33/3 + 33)$
:= $4 \times (((4-4/4) + 4)^4) + 4) + 4)$
:= $55/5 + (5 \times (55 \times ((5 \times 5 + 5) + 5)))$
:= $66 \times (((666-6)/6) + 6 \times 6)$
:= $77/7 + (77 \times (777/7 + 7 + 7))$
:= $88/8 \times (888 - ((88+8)/8))$
:= $9999 - (99 \times 99 / (9+9+9))$
- 9641 := $1 + (1 + ((11^{1+1} - (1+1)) \times (11-1-1)^{1+1}))$
:= $2/2 + ((2-22) \times (2-22^2))$
:= $3 + ((3^3 \times ((333-3) + 3^3)) - 3/3)$
:= $4 + ((4 \times (((4-4/4) + 4)^4) + 4) + 4) + 4/4)$
:= $5 + ((5 \times (55 \times ((5 \times 5 + 5) + 5))) + (55/5))$
:= $66 + ((6+6) \times (66 \times (6+6) + 6) - 6/6)$
:= $(7 \times ((7 \times (7+7) \times (7+7) + 7)) - (77+7)/7)$
:= $8/8 + ((8 \times 8 \times (8 \times 8 + 88)) - 88)$
:= $(9+9)/9 + (9 \times ((999-9) + 9 \times 9))$
- 9632 := $(1+1) \times ((1+111) \times (((1+1) \times (11+11)) - 1))$
:= $(222+2) \times ((2 \times 22) - 2/2)$
:= $(3^3 + 3/3) \times (333 + 33/3)$
:= $(4+4) \times (4 \times (44+4^4) + 4)$
:= $((5+5)/5 + 5) \times (5 \times 5 \times 55 + 5/5)$
:= $((6+6)/6) \times ((6 \times 66 \times (6+6)) + ((6+6)/6)^6)$
:= $7 + (77 \times (777/7 + 7 + 7))$
:= $(8 \times 8 \times (8 \times 8 + 88)) - (88+8)$
:= $(9+9)/9 + ((9-99) \times (9/9 - (99+9)))$
- 9637 := $1 + ((1+1) \times ((1+1) \times (11 \times (((1+1) \times (111-1)) - 1))))$
:= $2/2 + (22 \times (2 \times (222-2) - 2))$
:= $33 + ((3 \times 33 - 3/3)^{3-3/3})$
:= $4/4 + (4 \times (((4-4/4) + 4)^4) + 4) + 4)$
:= $5 + (((5+5)/5 + 5) \times (5 \times 5 \times 55 + 5/5))$
:= $6/6 + (66 \times (((666-6)/6) + 6 \times 6))$
:= $7 + (((7+7)/7 + 7) \times (77 \times (7+7) - (7/7+7)))$
:= $8 + ((8 \times 8 \times (8 \times 8 + 88)) - (88/8 + 88))$
:= $99 \times 99 - (((9+9)/9) + 9 \times (9+9))$
- 9642 := $(1+1) \times (1 + ((11-1) \times (((11+11)^{1+1}) - (1+1))))$
:= $2 + ((2-22) \times (2-22^2))$
:= $3 + (3^3 \times ((333-3) + 3^3))$
:= $4 + ((4 \times (((4-4/4) + 4)^4) + 4) + 4) + (4+4)/4)$
:= $5 + (((5+5)/5 + 5) \times (5 \times 5 \times 55 + 5/5)) + 5)$
:= $66 + (6+6) \times (66 \times (6+6) + 6)$
:= $(7 \times ((7 \times (7+7) \times (7+7) + 7)) - 77/7)$
:= $(8+8)/8 + ((8 \times 8 \times (8 \times 8 + 88)) - 88)$
:= $99 \times 99 + (((9+9+9)/9) - 9 \times (9+9))$

$$\begin{aligned}
\blacktriangleright 9643 &:= ((1+1)^{1+1+11}) + ((11 \times (11 \times (1+1))) - 1) \\
&:= 2 + (((2-22) \times (2-22^2)) + 2/2) \\
&:= 3 + ((3^3 \times ((333-3) + 3^3)) + 3/3) \\
&:= 4 + ((4-4/4)^4 \times ((444/4+4) + 4)) \\
&:= 5 \times 5 + (((5+5)/5+5) \times (5 \times 5 \times 55 - 5/5)) \\
&:= 66 + ((6+6) \times (66 \times (6+6) + 6) + 6/6) \\
&:= ((7-77)/7) + (7 \times ((7 \times (7+7) \times (7+7)) + 7)) \\
&:= 88/8 + ((8 \times 8 \times (8 \times 8 + 88)) - (88+8)) \\
&:= 9 + (9999 - ((9 \times 9 \times 9 \times 9) / (9+9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9644 &:= ((1+1)^{1+1+11}) + (11 \times (11 \times (1+1))) \\
&:= 2 + (((2-22) \times (2-22^2)) + 2) \\
&:= (3/3+3) \times ((33/3+3)^3 - 333) \\
&:= 44 + (4 \times ((4+4) \times (44+4^4))) \\
&:= (5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5)) - (5/5+5) \\
&:= (6 - ((6+6)/6)) \times (6 \times (6 \times 66 + 6) - 6/6) \\
&:= (7 \times ((7 \times (7+7) \times (7+7)) + 7)) - ((7+7)/7+7) \\
&:= 8 + (88/8 \times (888 - ((88+8)/8))) \\
&:= (99999/9) - (9 \times 9 \times (9+9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9645 &:= 1 + (((1+1)^{1+1+11}) + (11 \times (11 \times (1+1)))) \\
&:= 2 + (((2-22) \times (2-22^2)) + 2/2) + 2) \\
&:= 3 + ((3^3 \times ((333-3) + 3^3)) + 3) \\
&:= 44 + ((4 \times ((4+4) \times (44+4^4))) + 4/4) \\
&:= (5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5)) - 5 \\
&:= ((6+6) \times ((66 \times (6+6) + 6) + 6)) - 6 \times 6 / (6+6) \\
&:= (7 \times ((7 \times (7+7) \times (7+7)) + 7)) - (7/7+7) \\
&:= 8888 + (8 \times (88+8) - (88/8)) \\
&:= 9 + (9999 - (99 \times 99 / (9+9) + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9646 &:= (111 \times (111 - ((1+1) \times (1+1)))) - 11 \\
&:= ((22+2) \times ((22-2)^2 + 2)) - 2 \\
&:= (33 - 33/3)^3 - (3 \times 333 + 3) \\
&:= 44 + ((4 \times (((4-4/4) + 4)^4)) - (4+4)/4) \\
&:= 5/5 + ((5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5)) - 5) \\
&:= ((6+6)/6) \times (((6+6) \times (6 \times 66 + 6)) - 6/6) \\
&:= (7 \times ((7 \times (7+7) \times (7+7)) + 7)) - 7 \\
&:= ((88-8/8) \times 888/8) - 88/8 \\
&:= 9 + (99 \times 99 - ((9+9)/9) + 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9647 &:= 11 \times ((111 \times (1+1)^{1+1+1}) - 11) \\
&:= (2 \times 22 \times 222) - (22/2)^2 \\
&:= 33/3 \times ((33 \times 3^3) - (33/3 + 3)) \\
&:= 44 + ((4 \times (((4-4/4) + 4)^4)) - 4/4) \\
&:= 5 \times 55 + ((5 - (5+5)/5) \times (5^5 - 5/5)) \\
&:= ((6+6) \times ((66 \times (6+6) + 6) + 6)) - 6/6 \\
&:= 7/7 + ((7 \times ((7 \times (7+7) \times (7+7)) + 7)) - 7) \\
&:= 88/8 \times (888 - 88/8) \\
&:= 9 + (99 \times 99 - (9 \times (9+9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9648 &:= 1 + (11 \times ((111 \times (1+1)^{1+1+1}) - 11)) \\
&:= (22+2) \times ((22-2)^2 + 2) \\
&:= 3 \times ((3 \times 3 \times 333 + (3+3)^3) + 3) \\
&:= 44 + (4 \times (((4-4/4) + 4)^4)) \\
&:= (55/5+5) \times ((5^5 - (55+55))/5) \\
&:= (6+6) \times ((66 \times (6+6) + 6) + 6) \\
&:= (7+7)/7 + ((7 \times ((7 \times (7+7) \times (7+7)) + 7)) - 7) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 + 88)) - 88) \\
&:= 9 + (9 \times ((999-9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9649 &:= 1 + (1 + (11 \times ((111 \times (1+1)^{1+1+1}) - 11))) \\
&:= 2/2 + ((22+2) \times ((22-2)^2 + 2)) \\
&:= (33 - 33/3)^3 - 3 \times 333 \\
&:= 44 + ((4 \times (((4-4/4) + 4)^4)) + 4/4) \\
&:= (5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5)) - 5/5 \\
&:= 6/6 + ((6+6) \times ((66 \times (6+6) + 6) + 6)) \\
&:= 7 + ((7 \times ((7 \times (7+7) \times (7+7)) + 7)) - (77/7)) \\
&:= ((88-8/8) \times 888/8) - 8 \\
&:= 9 + (9 \times ((999-9) + 9 \times 9)) + 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9650 &:= (11-1) \times (((1+1) \times ((11+11)^{1+1}) - 1)) - 1 \\
&:= 2 + ((22+2) \times ((22-2)^2 + 2)) \\
&:= 333 + ((3/3+3+3) \times (33/3)^3) \\
&:= 44 + ((4 \times (((4-4/4) + 4)^4)) + (4+4)/4) \\
&:= 5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5) \\
&:= (6+6)/6 + ((6+6) \times ((66 \times (6+6) + 6) + 6)) \\
&:= (7 \times ((7 \times (7+7) \times (7+7)) + 7)) - (7+7+7)/7 \\
&:= 8/8 + (((88-8/8) \times 888/8) - 8) \\
&:= 99/9 + (9 \times ((999-9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9651 &:= ((1+1)^{1+1+1}) + ((11111-1)/(1+1)) \\
&:= 22/2 + ((2-22) \times (2-22^2)) \\
&:= (333 \times ((3^3 - 3/3) + 3)) - 3 - 3 \\
&:= 4 + (((4 \times (((4-4/4) + 4)^4)) - 4/4) + 44) \\
&:= 5/5 + (5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5)) \\
&:= 6 \times 6 + (66 \times (6+6) \times (6+6) + 666/6) \\
&:= (7 \times ((7 \times (7+7) \times (7+7)) + 7)) - (7+7)/7 \\
&:= 88/8 + ((8 \times 8 \times (8 \times 8 + 88)) - 88) \\
&:= 99 \times 99 + ((99+9)/9 - 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9652 &:= ((1+1)^{1+1+1}) + ((1+11111)/(1+1)) \\
&:= 2 + (((22+2) \times ((22-2)^2 + 2)) + 2) \\
&:= 3 + ((33 - 33/3)^3 - 3 \times 333) \\
&:= 4 + ((4 \times (((4-4/4) + 4)^4)) + 44) \\
&:= (5+5)/5 + (5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5)) \\
&:= (6 - ((6+6)/6)) \times (6 \times (6 \times 66 + 6) + 6/6) \\
&:= (7 \times ((7 \times (7+7) \times (7+7)) + 7)) - 7/7 \\
&:= (88/8+8) \times (8 \times 8 \times 8 - 8 \times 8 / (8+8)) \\
&:= 9 \times (9+9+9) + ((99 - (9+9)/9))^{(9+9)/9}
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9653 &:= 1 + (((1+1)^{1+1+1}) + ((1+11111)/(1+1))) \\
&:= 2 + (((2-22) \times (2-22^2)) + 22/2) \\
&:= 3 \times 3333 - (((3/3+3+3)^3) + 3) \\
&:= 4 + (((4 \times (((4-4/4) + 4)^4)) + 44) + 4/4) \\
&:= 5 \times 55 + ((5 - (5+5)/5) \times (5^5 + 5/5)) \\
&:= 6 + (((6+6) \times ((66 \times (6+6) + 6) + 6)) - 6/6) \\
&:= 7 \times ((7 \times (7+7) \times (7+7)) + 7) \\
&:= (8 \times (8 \times (8 \times 8 + 88) - 8)) - 88/8 \\
&:= (99999/9) - 9 \times 9 \times (9+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9654 &:= (1+1+1) \times ((111 \times ((11-1) \times (1+1+1)) - 1)) - 1 \\
&:= (22^2 \times (22-2)) - 22 - 2 - 2 \\
&:= (333 \times ((3^3 - 3/3) + 3)) - 3 \\
&:= 4 + (((4 \times (((4-4/4) + 4)^4)) + (4+4)/4) + 44) \\
&:= 5 + ((5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5)) - 5/5) \\
&:= 6 + ((6+6) \times ((66 \times (6+6) + 6) + 6)) \\
&:= 7/7 + (7 \times ((7 \times (7+7) \times (7+7)) + 7)) \\
&:= (8-88)/8 + (8 \times (8 \times (8 \times 8 + 88) - 8)) \\
&:= 9/9 + ((99999/9) - 9 \times 9 \times (9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9655 &:= 11111 - ((1+1+11) \times (1+111)) \\
&:= (22^2 \times (22-2)) - ((22+2/2) + 2) \\
&:= 33 \times 333 - ((33/3)^3 + 3) \\
&:= (4/4+4) \times (44 \times 44 - (4/4+4)) \\
&:= 5 + (5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5)) \\
&:= 6 + (((6+6) \times ((66 \times (6+6) + 6) + 6)) + 6/6) \\
&:= (7+7)/7 + (7 \times ((7 \times (7+7) \times (7+7)) + 7)) \\
&:= 8 + (88/8 \times (888 - 88/8)) \\
&:= 9 + ((99 \times 99 - ((9+9)/9) + 9 \times (9+9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9656 &:= (111 \times (111 - ((1+1) \times (1+1)))) - 1 \\
&:= (22^2 \times (22-2)) - 22 - 2 \\
&:= 3 \times 3333 - ((3/3+3+3)^3) \\
&:= ((4/4+4) \times (44 \times 44 - 4)) - 4 \\
&:= 5 + ((5 \times ((55 \times ((5 \times 5 + 5) + 5)) + 5)) + 5/5) \\
&:= 6 + (((6+6) \times ((66 \times (6+6) + 6) + 6)) + ((6+6)/6)) \\
&:= (7+7+7)/7 + (7 \times ((7 \times (7+7) \times (7+7)) + 7)) \\
&:= 8888 + 8 \times (88+8) \\
&:= 9 + ((99 \times 99 - (9 \times (9+9) + 9/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9657 &:= 111 \times (111 - ((1+1) \times (1+1))) \\
&:= 222/2 \times (2 \times 2 \times 22 - 2/2) \\
&:= 333 \times ((3^3 - 3/3) + 3) \\
&:= 444/4 \times ((44 - 4/4) + 44) \\
&:= 555/5 \times (((5+5)/5)^5 + 55) \\
&:= (6 \times 6 - (6/6+6)) \times 666 \times 6 / (6+6) \\
&:= 777/7 \times (((77-7)/7) + 77) \\
&:= (88-8/8) \times 888/8 \\
&:= 9 + ((9 \times ((999-9) + 9 \times 9)) + 9)
\end{aligned}$$

- ▶ 9658 := $1 + (111 \times (111 - ((1 + 1) \times (1 + 11))))$
:= $22 \times ((22 - 2/2)^2) - 2$
:= $33 \times 333 - (33/3)^3$
:= $44/4 \times (44 \times (4 \times 4 + 4) - (4 + 4)/4)$
:= $5 + (((5 - (5 + 5)/5) \times (5^5 + 5/5)) + 5 \times 55)$
:= $6 + ((6 - ((6 + 6)/6)) \times (6 \times (6 \times 66 + 6) + 6/6))$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7)) - ((7 + 7)/7))$
:= $8/8 + ((88 - 8/8) \times 888/8)$
:= $9 + (((9 \times (999 - 9) + 9 \times 9)) + 9/9) + 9$
- ▶ 9659 := $(111^{1+1}) - ((1 + 1) \times 11^{1+1+1})$
:= $2/2 + (22 \times ((22 - 2/2)^2) - 2)$
:= $3 + (3 \times 3333 - ((3/3 + 3 + 3)^3))$
:= $((4/4 + 4) \times (44 \times 44 - 4)) - 4/4$
:= $((5 + 5)/5 + 5) \times (5 \times 5 \times 55 + 5) - 5/5$
:= $66/6 + ((6 + 6) \times ((66 \times (6 + 6) + 6) + 6))$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7)) - 7/7)$
:= $(8 + 8)/8 + ((88 - 8/8) \times 888/8)$
:= $9 + ((9 \times (999 - 9) + 9 \times 9)) + (99/9)$
- ▶ 9660 := $(1 + 1) \times ((11 - 1) \times (((11 + 11)^{1+1}) - 1))$
:= $(2 - 22) \times (2/2 - 22^2)$
:= $3 + (333 \times ((3^3 - 3/3) + 3))$
:= $(4/4 + 4) \times (44 \times 44 - 4)$
:= $((5 + 5)/5 + 5) \times (5 \times 5 \times 55 + 5)$
:= $6 + (((6 + 6) \times ((66 \times (6 + 6) + 6) + 6)) + 6)$
:= $7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7))$
:= $((8 + 8)/8 + 8) \times ((88 \times 88 - (8 + 8))/8)$
:= $((99/9) \times (9 \times 99 - (99 + 9)/9)) - 9$
- ▶ 9661 := $1 + ((1 + 1) \times ((11 - 1) \times (((11 + 11)^{1+1}) - 1)))$
:= $2/2 + ((2 - 22) \times (2/2 - 22^2))$
:= $3 + (33 \times 333 - (33/3)^3)$
:= $4/4 + ((4/4 + 4) \times (44 \times 44 - 4))$
:= $5^5 + (((5 - 5/5 + 5)^{5-5/5}) - 5 \times 5)$
:= $6 + (((6 + 6) \times ((66 \times (6 + 6) + 6) + 6)) + 6/6) + 6$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7)) + 7/7)$
:= $(88/8 \times (888 - 8/8 - 8)) - 8$
:= $99 \times 99 + (((9 + 9)/9) \times ((99/9) - 9 \times 9))$
- ▶ 9662 := $(1 + 1) \times (1 + ((11 - 1) \times (((11 + 11)^{1+1}) - 1)))$
:= $2 + ((2 - 22) \times (2/2 - 22^2))$
:= $3 \times 3333 - ((333 + 3/3) + 3)$
:= $(4 + 4)/4 + ((4/4 + 4) \times (44 \times 44 - 4))$
:= $5 + (555/5 \times (((5 + 5)/5)^5 + 55))$
:= $((6 + 6)/6) \times (((6 + 6) \times (6 \times 66 + 6)) + 6/6) + 6$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7)) + ((7 + 7)/7))$
:= $(8 \times (8 \times (8 \times 8 + 88) - 8)) - (8 + 8)/8$
:= $9 + ((9999/9) - 9 \times 9 \times (9 + 9))$
- ▶ 9663 := $1 + ((1 + 1) \times (1 + ((11 - 1) \times (((11 + 11)^{1+1}) - 1))))$
:= $2 + (((2 - 22) \times (2/2 - 22^2)) + 2/2)$
:= $3 \times 3333 - 333 - 3$
:= $4 + (((4/4 + 4) \times (44 \times 44 - 4)) - 4/4)$
:= $((5 + 5)^{5-5/5}) + (((5 - 5^5)/(5 + 5)) - 5 \times 5)$
:= $6 + ((6 \times 6 - (6/6 + 6)) \times 666 \times 6/(6 + 6))$
:= $((77 - 7)/7) + (7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7))$
:= $(8 \times (8 \times (8 \times 8 + 88) - 8)) - 8/8$
:= $99 \times 99 - (((999/9 + 9) + 9) + 9)$
- ▶ 9664 := $(1 + 1)^{1+1+1} \times ((11 \times (111 - 1)) - (1 + 1))$
:= $(22^2 \times (22 - 2)) - 2^{2+2}$
:= $3 + ((33 \times 333 - (33/3)^3) + 3)$
:= $4 + ((4/4 + 4) \times (44 \times 44 - 4))$
:= $(55/5 + 5) \times ((55 \times 55 - 5)/5)$
:= $((6 + 6)/6)^6 \times (((6 + 6) \times (6 + 6) + 6/6) + 6)$
:= $77/7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7))$
:= $8 \times (8 \times (8 \times 8 + 88) - 8)$
:= $9999 - ((9 + 9) \times (9 + 9) + (99/9))$
- ▶ 9665 := $1 + ((1 + 1)^{1+1+1} \times ((11 \times (111 - 1)) - (1 + 1)))$
:= $2/2 + ((22^2 \times (22 - 2)) - 2^{2+2})$
:= $3 \times 3333 - (333 + 3/3)$
:= $(4/4 + 4) \times ((44 \times 44 - 4) + 4/4)$
:= $5 + (((5 + 5)/5 + 5) \times (5 \times 5 \times 55 + 5))$
:= $6 + (((6 + 6) \times ((66 \times (6 + 6) + 6) + 6)) + (66/6))$
:= $777 + ((7/7 + 7) \times 7777/7)$
:= $8 + ((88 - 8/8) \times 888/8)$
:= $((9 + 9)/9)^9 + (9 \times (999 + 9 + 9))$
- ▶ 9666 := $(1 + 1 + 1) \times (((1 + 1 + 1) \times 1111) - 111)$
:= $2 + ((22^2 \times (22 - 2)) - 2^{2+2})$
:= $3 \times 3333 - 333$
:= $(4^4 - 4 - 4)/4 + (4 \times (((4 - 4/4) + 4)^4))$
:= $((5 - 5^5)/5) + ((5 + 5) \times ((5 - 5/5)^5 + 5))$
:= $(66 - 6 - 6) \times (6 \times (6 \times 6 - 6) - 6/6)$
:= $(77/7 + 7) \times (7 \times 77 - ((7 + 7)/7))$
:= $(8 + 8)/8 + (8 \times (8 \times (8 \times 8 + 88) - 8))$
:= $999 + (9 \times (9 \times (99 + 9) - 9))$
- ▶ 9667 := $11111 - (1 + (111 \times (1 + 1 + 11)))$
:= $(22^2 \times (22 - 2)) - (22/2 + 2)$
:= $3/3 + (3 \times 3333 - 333)$
:= $((4^4 - 4)/4) + (4 \times (((4 - 4/4) + 4)^4))$
:= $((5 + 5)/5 + 5) \times ((5 \times 5 \times 55 + 5/5) + 5)$
:= $6/6 + ((66 - 6 - 6) \times (6 \times (6 \times 6 - 6) - 6/6))$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7)) + 7)$
:= $88/8 + (8888 + 8 \times (88 + 8))$
:= $9/9 + ((9 \times (9 \times (99 + 9) - 9)) + 999)$
- ▶ 9668 := $11111 - (111 \times (1 + 1 + 11))$
:= $2 \times ((22 \times (222 - 2)) - (2 + 2 + 2))$
:= $3 + (3 \times 3333 - (333 + 3/3))$
:= $4 \times (((4 - 4/4) + 4)^4) + 4 \times 4$
:= $5 \times 55 + ((5 - (5 + 5)/5) \times ((5^5 + 5/5) + 5))$
:= $(6 - ((6 + 6)/6)) \times ((6 \times (6 \times 66 + 6) - 6/6) + 6)$
:= $7 + (((7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7)) + 7/7) + 7)$
:= $8 \times 8 + (((8 + 8)/8 + 88) + 8)^{(8+8)/8}$
:= $(99 \times (99 + 9)) - (((9 + 9)/9)^{9/9+9})$
- ▶ 9669 := $11 \times ((11 - 1)^{1+1+1} - 11^{1+1})$
:= $(22^2 \times (22 - 2)) - 22/2$
:= $3 + (3 \times 3333 - 333)$
:= $4/4 + (4 \times (((4 - 4/4) + 4)^4) + 4 \times 4)$
:= $5 + ((55/5 + 5) \times ((55 \times 55 - 5)/5))$
:= $(666666/66) - (6 \times (66 + 6))$
:= $((7 + 7) \times (777 - 7)) - 7777/7$
:= $88/8 \times (888 - 8/8 - 8)$
:= $99/9 \times (9 \times 99 - (99 + 9)/9)$
- ▶ 9670 := $(11 - 1) \times (1111 - (1 + 11)^{1+1})$
:= $(2/2 + 2 + 2) \times ((2 \times 22)^2 - 2)$
:= $3 + ((3 \times 3333 - 333) + 3/3)$
:= $(4/4 + 4) \times (44 \times 44 - (4 + 4)/4)$
:= $5 \times (((5/5 + 5)^5/(5 - 5/5)) - (5 + 5))$
:= $6 + (((6 + 6)/6)^6 \times (((6 + 6) \times (6 + 6) + 6/6) + 6))$
:= $77 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - (77/7))$
:= $((8 + 8)/8 + 8) \times ((88 \times 88 - 8)/8)$
:= $99 \times 99 - ((999 + 99)/9 + 9)$
- ▶ 9671 := $1 + ((11 - 1) \times (1111 - (1 + 11)^{1+1}))$
:= $2 + ((22^2 \times (22 - 2)) - 22/2)$
:= $((3 \times (3 + 3)) + 3/3) \times (((3 - 3/3)^{3 \times 3}) - 3)$
:= $((4/4 + 4) \times (44 \times 44 - 4/4)) - 4$
:= $5 + (((5 + 5) \times ((5 - 5/5)^5 + 5)) + ((5 - 5^5)/5))$
:= $((6 - ((6 + 6)/6)) \times (6 \times (6 \times 66 + 6) + 6)) - 6/6$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7)) + (77/7))$
:= $8 + ((8 \times (8 \times (8 \times 8 + 88) - 8)) - 8/8)$
:= $((99/9) \times (9 \times 99 - (99/9))) - 9$
- ▶ 9672 := $(1 + 1)^{1+1+1} \times ((11 \times (111 - 1)) - 1)$
:= $2 \times ((22 \times (222 - 2)) - (2 + 2))$
:= $3 + ((3 \times 3333 - 333) + 3)$
:= $4 + (4 \times (((4 - 4/4) + 4)^4) + 4 \times 4)$
:= $((5 \times 5 + 5/5) + 5) \times (5^5 - 5)/(5 + 5)$
:= $(6 - ((6 + 6)/6)) \times (6 \times (6 \times 66 + 6) + 6)$
:= $(7/7 + 7) \times (7777/7 + 7 \times (7 + 7))$
:= $8 + (8 \times (8 \times (8 \times 8 + 88) - 8))$
:= $99 \times 99 - ((999/9 + 9) + 9)$

- 9673 := $1 + ((1 + 1)^{1+1+1} \times ((11 \times (111 - 1)) - 1))$
:= $2 + (((22^2 \times (22 - 2)) - 22/2) + 2)$
:= $3 + (((3 \times 3333 - 333) + 3/3) + 3)$
:= $4 + ((4 \times (((4 - 4/4) + 4^4) + 4 \times 4)) + 4/4)$
:= $((55 + 5)/5 + 5) \times ((5^5 - 5)/5 - 55)$
:= $6/6 + ((6 - ((6 + 6)/6)) \times (6 \times (6 \times 66 + 6) + 6))$
:= $7 + ((77/7 + 7) \times (7 \times 77 - ((7 + 7)/7)))$
:= $8 + (((88 - 8/8) \times 888/8) + 8)$
:= $99 \times 99 + (((9 - 999)/9) - (9 + 9))$
- 9674 := $1 + (1 + ((1 + 1)^{1+1+1} \times ((11 \times (111 - 1)) - 1)))$
:= $(22^2 \times (22 - 2)) - 2 - 2 - 2$
:= $(3 \times (3333 + 3)) - (333 + 3/3)$
:= $4 + ((4/4 + 4) \times (44 \times 44 - (4 + 4)/4))$
:= $5^5 + (555/5 \times (55 - 5/5 + 5))$
:= $(6/6 + 6) \times (((6 + 6)/6)^{66/6} - 666)$
:= $77 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - 7)$
:= $8 + ((8 \times (8 \times (8 \times 8 + 88) - 8)) + ((8 + 8)/8))$
:= $9999 - ((9 + 9) \times (9 + 9) + 9/9)$
- 9675 := $(1 + 1 + 1) \times (((1 + 1 + 1) \times (1 + 1111)) - 111)$
:= $(2/2 + 2 + 2) \times ((2 \times 22)^2 - 2/2)$
:= $3 \times (3333 - (3 \times (33 + 3)))$
:= $(4/4 + 4) \times (44 \times 44 - 4/4)$
:= $5 \times (((55 \times ((5 \times 5 + 5) + 5)) + 5) + 5)$
:= $(6 \times 6 \times 6 - 6/6) \times (666/6 - 66)$
:= $7/7 + (((7 \times (7 \times (7 + 7) \times (7 + 7))) - 7) + 77)$
:= $88/8 + (8 \times (8 \times (8 \times 8 + 88) - 8))$
:= $9999 - (9 + 9) \times (9 + 9)$
- 9676 := $(1 + 1) \times ((1 + 1) \times (((1 + 1) \times (11 \times (111 - 1))) - 1))$
:= $2 \times ((22 \times (222 - 2)) - 2)$
:= $3/3 + (3 \times (3333 - (3 \times (33 + 3))))$
:= $(44 \times (4 \times 44 + 44)) - 4$
:= $5^5 + (((5 - 5/5 + 5)^{5-5/5}) - (5 + 5))$
:= $(6 - ((6 + 6)/6)) \times ((6 \times (6 \times 66 + 6) + 6/6) + 6)$
:= $(777/7 + 7) \times ((77 - (7 + 7)/7) + 7)$
:= $((88 + 8)/8) + (8 \times (8 \times (8 \times 8 + 88) - 8))$
:= $9/9 + (9999 - (9 + 9) \times (9 + 9))$
- 9677 := $((1 + 1) \times (((11 - 1) \times ((11 + 11)^{1+1})) - 1)) - 1$
:= $(22^2 \times (22 - 2)) - 2/2 - 2$
:= $33/3 + (3 \times 3333 - 333)$
:= $4/4 + ((44 \times (4 \times 44 + 44)) - 4)$
:= $5 + (((5 \times 5 + 5/5) + 5) \times (5^5 - 5)/(5 + 5))$
:= $6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) + 66) - 6/6 - 6$
:= $((77/7 + 7) \times (7 \times 77 - 7/7)) - 7$
:= $8 + (88/8 \times (888 - 8/8 - 8))$
:= $(9 + 9)/9 + (9999 - (9 + 9) \times (9 + 9))$
- 9678 := $(1 + 1) \times (((11 - 1) \times ((11 + 11)^{1+1})) - 1)$
:= $(22^2 \times (22 - 2)) - 2$
:= $3 + (3 \times (3333 - (3 \times (33 + 3))))$
:= $(44 \times (4 \times 44 + 44)) - (4 + 4)/4$
:= $5 + (((55 + 5)/5) + 5) \times ((5^5 - 5)/5 - 55)$
:= $6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) + 66) - 6$
:= $7 + (((7 \times ((7 \times (7 + 7) \times (7 + 7))) + 7)) + (77/7)) + 7$
:= $(88 \times (888 - 8)/8) - (8 + 8)/8$
:= $9 + ((99/9) \times (9 \times 99 - (99 + 9)/9))$
- 9679 := $((1 + 1) \times ((11 - 1) \times ((11 + 11)^{1+1}))) - 1$
:= $(22^2 \times (22 - 2)) - 2/2$
:= $3 + ((3 \times (3333 - (3 \times (33 + 3)))) + 3/3)$
:= $(44 \times (4 \times 44 + 44)) - 4/4$
:= $55 + ((5 \times (55 \times ((5 \times 5 + 5) + 5))) - 5/5)$
:= $6/6 + (6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) + 66) - 6)$
:= $((7 + 7)/7)^7 \times (77 - 7/7) - 7 \times 7$
:= $(88 \times (888 - 8)/8) - 8/8$
:= $99 \times 99 - (999 + 99)/9$
- 9680 := $(1 + 1) \times ((11 - 1) \times ((11 + 11)^{1+1}))$
:= $22^2 \times (22 - 2)$
:= $33/3 \times ((33 \times 3^3) - 33/3)$
:= $44 \times (4 \times 44 + 44)$
:= $5 \times ((55 - (55/5))^{(5+5)/5})$
:= $(6 - 6/6) \times (((6 + 6)/6 + 6 \times 6) + 6)^{(6+6)/6}$
:= $77 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - 7/7)$
:= $88 \times (888 - 8)/8$
:= $99/9 \times (9 \times 99 - (99/9))$
- 9681 := $1 + ((1 + 1) \times ((11 - 1) \times ((11 + 11)^{1+1})))$
:= $2/2 + (22^2 \times (22 - 2))$
:= $((3 \times 3 + 3) \times ((3^3 \times (3^3 + 3)) - 3)) - 3$
:= $4/4 + (44 \times (4 \times 44 + 44))$
:= $5^5 + (((5 - 5/5 + 5)^{5-5/5}) - 5)$
:= $6 + ((6 \times 6 \times 6 - 6/6) \times (666/6 - 66))$
:= $77 + (7 \times (7 \times (7 + 7) \times (7 + 7)))$
:= $8/8 + (88 \times (888 - 8)/8)$
:= $99 \times 99 - (999/9 + 9)$
- 9682 := $(1 + 1) \times (1 + ((11 - 1) \times ((11 + 11)^{1+1})))$
:= $2 + (22^2 \times (22 - 2))$
:= $3^3 + (33 \times 333 - ((33/3)^3 + 3))$
:= $(4 + 4)/4 + (44 \times (4 \times 44 + 44))$
:= $((5 + 5)^{5-5/5}) - ((5^5 + 5)/(5 + 5) + 5)$
:= $(66/6 + 6 \times 6) \times (((6 - 66)/6) + 6 \times 6 \times 6)$
:= $7/7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) + 77)$
:= $(8 + 8)/8 + (88 \times (888 - 8)/8)$
:= $99 \times 99 + (((9 - 999)/9) - 9)$
- 9683 := $1 + ((1 + 1) \times (1 + ((11 - 1) \times ((11 + 11)^{1+1}))))$
:= $2 + ((22^2 \times (22 - 2)) + 2/2)$
:= $3 + (33/3 \times ((33 \times 3^3) - 33/3))$
:= $4 + ((44 \times (4 \times 44 + 44)) - 4/4)$
:= $((5 + 5)^{5-5/5}) + (((5 - 5^5)/(5 + 5)) - 5)$
:= $6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) + 66) - 6/6$
:= $77 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) + ((7 + 7)/7))$
:= $(88/8 \times ((888 - 8) + 8/8)) - 8$
:= $99 \times 99 - ((9/9 + 99 + 9) + 9)$
- 9684 := $(1 + 1) \times (1 + (1 + ((11 - 1) \times ((11 + 11)^{1+1}))))$
:= $2 + ((22^2 \times (22 - 2)) + 2)$
:= $(3 \times 3 + 3) \times ((3^3 \times (3^3 + 3)) - 3)$
:= $4 + (44 \times (4 \times 44 + 44))$
:= $(55/5 + 5 \times 5) \times (5 \times 55 - (5/5 + 5))$
:= $6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) + 66)$
:= $(77/7 + 7) \times (7 \times 77 - 7/7)$
:= $8 \times 8/(8 + 8) + (88 \times (888 - 8)/8)$
:= $99 \times 99 - (99 + 9 + 9)$
- 9685 := $(1 + (1 + 1 + 1 + 1)) \times ((1 + 1)^{11} - 111)$
:= $2 + (((22^2 \times (22 - 2)) + 2/2) + 2)$
:= $3^3 + (33 \times 333 - (33/3)^3)$
:= $(4/4 + 4) \times (44 \times 44 + 4/4)$
:= $((5 + 5) \times (5 - 5/5)^5) - 555$
:= $6/6 + 6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) + 66)$
:= $7/7 + ((77/7 + 7) \times (7 \times 77 - 7/7))$
:= $8 + ((88/8 \times (888 - 8/8 - 8)) + 8)$
:= $9 \times 9 + ((99 - 9/9)^{(9+9)/9})$
- 9686 := $1 + ((1 + (1 + 1 + 1 + 1)) \times ((1 + 1)^{11} - 111))$
:= $2 + (((22^2 \times (22 - 2)) + 2) + 2)$
:= $((3^3 - 3/3) + 3) \times (333 + 3/3)$
:= $4 + ((44 \times (4 \times 44 + 44)) + (4 + 4)/4)$
:= $5^5 + (((5 - 5/5 + 5)^{5-5/5}) - 5)$
:= $(6 + 6)/6 + 6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) + 66)$
:= $7 + (((7 + 7)/7)^7 \times (77 - 7/7)) - 7 \times 7$
:= $8 + ((88 \times (888 - 8)/8) - ((8 + 8)/8))$
:= $9/9 + (((99 - 9/9)^{(9+9)/9}) + 9 \times 9)$
- 9687 := $((1 + 1)^{1+1+1} \times (1 + (11 \times (111 - 1)))) - 1$
:= $2 + (((22^2 \times (22 - 2)) + 2/2) + 2) + 2$
:= $(3^3 \times (333 + 3^3)) - 33$
:= $(44/4 \times ((4/4 + 4)^4 + 4^4)) - 4$
:= $((5 + 5)^{5-5/5}) - ((5^5 + 5)/(5 + 5) + 5)$
:= $666/6 + (6 + 6) \times (66 \times (6 + 6) + 6)$
:= $(77 \times (77 + 7 \times 7)) - (7/7 + 7 + 7)$
:= $8 + ((88 \times (888 - 8)/8) - 8/8)$
:= $99 \times 99 - (((999 + 9 + 9) + 9)/9)$

$$\begin{aligned}
\blacktriangleright 9688 &:= (1+1)^{1+1+1} \times (1+(11 \times (111-1))) \\
&:= 2 \times (((22 \times (222-2)) + 2) + 2) \\
&:= (3^3 + 3/3) \times (((3/3 + 3 + 3)^3) + 3) \\
&:= 4 + ((44 \times (4 \times 44 + 44)) + 4) \\
&:= ((5+5)^{5-5/5}) + ((5-5^5)/(5+5)) \\
&:= (666+6)/6 + (6+6) \times (66 \times (6+6) + 6) \\
&:= (77 \times (77+7 \times 7)) - (7+7) \\
&:= 8 + (88 \times (888-8)/8) \\
&:= 99 \times 99 - ((999+9+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9689 &:= ((11 \times (11-1-1))^{1+1}) - (1+111) \\
&:= 22/2 + ((22^2 \times (22-2)) - 2) \\
&:= 3 + (((3^3 - 3/3) + 3) \times (333 + 3/3)) \\
&:= 4 + ((4/4 + 4) \times (44 \times 44 + 4/4)) \\
&:= ((5+5) \times ((5-5/5)^5 - 55)) - 5/5 \\
&:= 6 + (6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) + 66) - 6/6) \\
&:= 7/7 + ((77 \times (77+7 \times 7)) - (7+7)) \\
&:= 8 + ((88 \times (888-8)/8) + 8/8) \\
&:= 99 \times 99 - ((999+9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9690 &:= ((11 \times (11-1-1))^{1+1}) - 111 \\
&:= (2/2 + 2 + 2) \times ((2 \times 22)^2 + 2) \\
&:= 3 + ((3^3 \times (333 + 3^3)) - 33) \\
&:= (4/4 + 4) \times (44 \times 44 + (4+4)/4) \\
&:= (5+5) \times ((5-5/5)^5 - 55) \\
&:= 6 + 6 \times (6 \times (6 \times (6 \times 6 + 6) + 6) + 66) \\
&:= (77 \times (77+7 \times 7)) - (77+7)/7 \\
&:= (((8+8)/8) + 8) \times ((88 \times 88 + 8)/8) \\
&:= 99 \times 99 - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9691 &:= 1 + (((11 \times (11-1-1))^{1+1}) - 111) \\
&:= 22/2 + (22^2 \times (22-2)) \\
&:= (33 \times (3 \times 3 \times 33 - 3)) - 33/3 \\
&:= 44/4 \times ((4/4 + 4)^4 + 4^4) \\
&:= 5 + (((5-5/5+5)^{5-5/5}) + 5^5) \\
&:= 66/6 \times ((6 \times 6 \times 6 - 6/6) + 666) \\
&:= (77 \times (77+7 \times 7)) - 77/7 \\
&:= 88/8 \times ((888-8) + 8/8) \\
&:= 99/9 \times (9 \times 99 - (9/9+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9692 &:= 1 + (1 + (((11 \times (11-1-1))^{1+1}) - 111)) \\
&:= 2 + ((2/2 + 2 + 2) \times ((2 \times 22)^2 + 2)) \\
&:= ((3-33)/3) + (33 \times (3 \times 3 \times 33 - 3)) \\
&:= 4 + (((44 \times (4 \times 44 + 44)) + 4) + 4) \\
&:= 5 + (((5+5)^{5-5/5}) - (5^5 + 5)/(5+5)) \\
&:= (6-66)/6 + 66 \times (666/6 + 6 \times 6) \\
&:= ((7-77)/7) + (77 \times (77+7 \times 7)) \\
&:= 8/8 + (88/8 \times ((888-8) + 8/8)) \\
&:= 99 \times 99 - (9/9 + 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9693 &:= 1 + (1 + (1 + (((11 \times (11-1-1))^{1+1}) - 111))) \\
&:= 2 + ((22^2 \times (22-2)) + 22/2) \\
&:= 3 \times (3 \times (33 \times 33 - (3 \times 3 + 3))) \\
&:= 4 + (((4/4 + 4) \times (44 \times 44 + 4/4)) + 4) \\
&:= 5 + (((5+5)^{5-5/5}) + ((5-5^5)/(5+5))) \\
&:= 6 + ((6+6) \times (66 \times (6+6) + 6) + 666/6) \\
&:= ((7+7)/7 + 7) \times (77 \times (7+7) - 7/7) \\
&:= (88/8 \times (888-8/8)) - 8 \times 8 \\
&:= 99 \times 99 - (99+9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9694 &:= (1+1) \times (((11 \times (1+11)) - 1) \times (111/(1+1+1))) \\
&:= 2^{2+2} + ((22^2 \times (22-2)) - 2) \\
&:= 3 + ((33 \times (3 \times 3 \times 33 - 3)) - 33/3) \\
&:= 4 + ((4/4 + 4) \times (44 \times 44 + (4+4)/4)) \\
&:= 5 + (((5+5) \times ((5-5/5)^5 - 55)) - 5/5) \\
&:= (6 \times 6 + 6/6) \times (((6+6)/6)^{6+(6+6)/6} + 6) \\
&:= (77 \times (77+7 \times 7)) - (7/7+7) \\
&:= (88/8 \times (((8+8)/8) - 8) + 888) - 8 \\
&:= 9/9 + (99 \times 99 - (99+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9695 &:= (1 + (1 + 1 + 1 + 1)) \times (1 + (1 + ((1+1)^{11} - 111))) \\
&:= 2 + (((22^2 \times (22-2)) + 22/2) + 2) \\
&:= (33 \times (3 \times 3 \times 33 - 3)) - (3/3 + 3 + 3) \\
&:= 4 + (44/4 \times ((4/4 + 4)^4 + 4^4)) \\
&:= 5 + ((5+5) \times ((5-5/5)^5 - 55)) \\
&:= 66 \times (666/6 + 6 \times 6) - 6/6 - 6 \\
&:= (77 \times (77+7 \times 7)) - 7 \\
&:= 8 + (((88 \times (888-8)/8) - 8/8) + 8) \\
&:= (9+9)/9 + (99 \times 99 - (99+9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9696 &:= (1+1)^{1+1+1} \times (1 + (1 + (11 \times (111-1)))) \\
&:= 2^{2+2} + (22^2 \times (22-2)) \\
&:= (33 \times (3 \times 3 \times 33 - 3)) - 3 - 3 \\
&:= 4 \times (44 \times (44/4 + 44) + 4) \\
&:= (55/5 + 5) \times ((55 \times 55 + 5)/5) \\
&:= 66 \times (666/6 + 6 \times 6) - 6 \\
&:= 7/7 + ((77 \times (77+7 \times 7)) - 7) \\
&:= 8 + ((88 \times (888-8)/8) + 8) \\
&:= (9-9/9) \times (((99/9) \times 999/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9697 &:= 1 + ((1+1)^{1+1+1} \times (1 + (1 + (11 \times (111-1)))))) \\
&:= 2/2 + ((22^2 \times (22-2)) + 2^{2+2}) \\
&:= 3/3 + ((33 \times (3 \times 3 \times 33 - 3)) - (3+3)) \\
&:= 4 \times 4 + ((44 \times (4 \times 44 + 44)) + 4/4) \\
&:= 5 + (((5+5)^{5-5/5}) - (5^5 + 5)/(5+5)) + 5 \\
&:= 6/6 + (66 \times (666/6 + 6 \times 6) - 6) \\
&:= (7+7)/7 + ((77 \times (77+7 \times 7)) - 7) \\
&:= 8 + (((88 \times (888-8)/8) + 8/8) + 8) \\
&:= 9 + (99 \times 99 - ((999+9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9698 &:= (1+1) \times ((11 \times ((11 + (11-1))^{1+1})) - (1+1)) \\
&:= (22 \times ((22-2/2)^2)) - 2 - 2 \\
&:= (33 \times (3 \times 3 \times 33 - 3)) - (3/3 + 3) \\
&:= ((4/4 + 4) \times (44 \times 44 + 4)) - (4+4)/4 \\
&:= (((5 \times 5 + 5/5) + 5) \times (5^5 + 5)/(5+5)) - 5 \\
&:= (6+6)/6 + (66 \times (666/6 + 6 \times 6) - 6) \\
&:= 7 + ((77 \times (77+7 \times 7)) - (77/7)) \\
&:= 8 + (((8+8)/8) + 8) \times ((88 \times 88 + 8)/8) \\
&:= 9 + (99 \times 99 - ((999+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9699 &:= ((1+1) \times ((11-1) \times (1 + ((11+11)^{1+1})))) - 1 \\
&:= (22 \times ((22-2/2)^2)) - 2/2 - 2 \\
&:= (33 \times (3 \times 3 \times 33 - 3)) - 3 \\
&:= ((4/4 + 4) \times (44 \times 44 + 4)) - 4/4 \\
&:= 5^5 + (((5+5) \times 555) + (5-5/5)^5) \\
&:= 66 \times (666/6 + 6 \times 6) - 6 \times 6/(6+6) \\
&:= (77 \times (77+7 \times 7)) - (7+7+7)/7 \\
&:= 8 + (88/8 \times ((888-8) + 8/8)) \\
&:= 9 + (99 \times 99 - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9700 &:= (1+1) \times ((11-1) \times (1 + ((11+11)^{1+1}))) \\
&:= (22-2) \times (22^2 + 2/2) \\
&:= 3/3 + ((33 \times (3 \times 3 \times 33 - 3)) - 3) \\
&:= (4/4 + 4) \times (44 \times 44 + 4) \\
&:= ((5+5)^{5-5/5}) - 5 \times (55+5) \\
&:= 66 \times (666/6 + 6 \times 6) - (6+6)/6 \\
&:= (77 \times (77+7 \times 7)) - (7+7)/7 \\
&:= (((8+8)/8) + 8) \times (88 \times 88 + 8 + 8)/8 \\
&:= 99 \times 99 - ((9+9)/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9701 &:= (111-1-1) \times (111-11-11) \\
&:= (22 \times ((22-2/2)^2)) - 2/2 \\
&:= (33 \times (3 \times 3 \times 33 - 3)) - 3/3 \\
&:= 4/4 + ((4/4 + 4) \times (44 \times 44 + 4)) \\
&:= (5/5 + 5)^5 + (55 \times ((5 \times 5 + 5) + 5)) \\
&:= 66 \times (666/6 + 6 \times 6) - 6/6 \\
&:= (77 \times (77+7 \times 7)) - 7/7 \\
&:= (8/8 + 88) \times ((888-8-8)/8) \\
&:= 99 \times 99 - (9/9 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9702 &:= (1+1) \times (11 \times ((11 + (11-1))^{1+1})) \\
&:= 22 \times ((22-2/2)^2) \\
&:= 33 \times (3 \times 3 \times 33 - 3) \\
&:= (4+4)/4 + ((4/4 + 4) \times (44 \times 44 + 4)) \\
&:= ((5+5)/5 + 5) \times (5 \times 5 \times 55 + (55/5)) \\
&:= 66 \times (666/6 + 6 \times 6) \\
&:= 77 \times (77+7 \times 7) \\
&:= 88/8 \times (((8+8)/8) - 8) + 888 \\
&:= 99 \times (99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9703 &:= 1 + ((1+1) \times (11 \times ((11 + (11-1))^{1+1}))) \\
&:= 2/2 + (22 \times ((22 - 2/2)^2)) \\
&:= 3/3 + (33 \times (3 \times 3 \times 33 - 3)) \\
&:= 4 + (((4/4 + 4) \times (44 \times 44 + 4)) - 4/4) \\
&:= ((5 \times 5 + 5/5) + 5) \times (5^5 + 5) / (5 + 5) \\
&:= 6/6 + 66 \times (666/6 + 6 \times 6) \\
&:= 7/7 + (77 \times (77 + 7 \times 7)) \\
&:= 88888/8 - 88 \times (8 + 8) \\
&:= 9/9 + (99 \times (99 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9708 &:= (1 + 11) \times (((11 - 1) \times (11 - 1 - 1))^{1+1}) - 1 \\
&:= 2 + (((22 \times ((22 - 2/2)^2)) + 2) + 2) \\
&:= 3 + ((33 \times (3 \times 3 \times 33 - 3)) + 3) \\
&:= 4 + (((4/4 + 4) \times (44 \times 44 + 4)) + 4) \\
&:= (5 - (5 + 5)/5) \times (555/5 + 5^5) \\
&:= 6 + 66 \times (666/6 + 6 \times 6) \\
&:= 7 + ((77 \times (77 + 7 \times 7)) - 7/7) \\
&:= (8 \times 8 \times (8 \times 8 + 88)) - ((88 + 8)/8 + 8) \\
&:= 9 + ((99 \times 99 - 999/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9713 &:= 11 \times (1 + ((1+1) \times ((11 + (11-1))^{1+1}))) \\
&:= 22/2 + (22 \times ((22 - 2/2)^2)) \\
&:= 33/3 + (33 \times (3 \times 3 \times 33 - 3)) \\
&:= 4/4 + (4 \times ((4 \times ((4 + 4) \times 44 + 4^4)) - 4)) \\
&:= 5 + ((5 - (5 + 5)/5) \times (555/5 + 5^5)) \\
&:= 66/6 + 66 \times (666/6 + 6 \times 6) \\
&:= 77/7 + (77 \times (77 + 7 \times 7)) \\
&:= 8/8 + ((8 \times 8 \times (8 \times 8 + 88)) - (8 + 8)) \\
&:= 99/9 + (99 \times (99 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9704 &:= (1 + 1) \times (1 + (11 \times ((11 + (11-1))^{1+1}))) \\
&:= 2 + (22 \times ((22 - 2/2)^2)) \\
&:= 3 + ((33 \times (3 \times 3 \times 33 - 3)) - 3/3) \\
&:= 4 + ((4/4 + 4) \times (44 \times 44 + 4)) \\
&:= 5^5 + (5555 + (5 - 5/5)^5) \\
&:= (6 + 6)/6 + 66 \times (666/6 + 6 \times 6) \\
&:= (7 + 7)/7 + (77 \times (77 + 7 \times 7)) \\
&:= (88 \times 888/8) - 8 \times 8 \\
&:= (9 + 9)/9 + (99 \times (99 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9709 &:= (((1+1) \times (11-1)) - 1) \times ((1+1)^{11-1-1} - 1) \\
&:= ((22 - 2) \times (22^2 + 2)) - 22/2 \\
&:= (3^3 \times (333 + 3^3)) - 33/3 \\
&:= 4 + ((4/4 + 4) \times ((44 \times 44 + 4/4) + 4)) \\
&:= 5 + ((5555 + (5 - 5/5)^5) + 5^5) \\
&:= 6 + (66 \times (666/6 + 6 \times 6) + 6/6) \\
&:= 7 + (77 \times (77 + 7 \times 7)) \\
&:= (88/8 + 8) \times (8 \times 8 \times 8 - 8/8) \\
&:= 99 \times 99 - ((99/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9714 &:= 1 + (11 \times (1 + ((1+1) \times ((11 + (11-1))^{1+1})))) \\
&:= ((22 - 2) \times (22^2 + 2)) - 2 - 2 - 2 \\
&:= (3^3 \times (333 + 3^3)) - 3 - 3 \\
&:= (444 - 4)/4 + (4 \times (((4 - 4/4) + 4)^4)) \\
&:= 5^5 + (55/5 \times ((5^5 - 5)/5 - 5 \times 5)) \\
&:= (6 \times 6 \times (666 - 6 \times 66)) - 6 \\
&:= (77 + 7)/7 + (77 \times (77 + 7 \times 7)) \\
&:= (8 + 8)/8 + ((8 \times 8 \times (8 \times 8 + 88)) - (8 + 8)) \\
&:= 99 \times 99 + ((99 + 9)/9 - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9705 &:= 1 + ((1+1) \times (1 + (11 \times ((11 + (11-1))^{1+1})))) \\
&:= 2 + (22 \times ((22 - 2/2)^2)) + 2/2 \\
&:= 3 + (33 \times (3 \times 3 \times 33 - 3)) \\
&:= (4/4 + 4) \times ((44 \times 44 + 4/4) + 4) \\
&:= 5 + (((5 + 5)^{5-5/5}) - 5 \times (55 + 5)) \\
&:= (666666/66) - 6 \times 66 \\
&:= (7 + 7 + 7)/7 + (77 \times (77 + 7 \times 7)) \\
&:= 8/8 + ((88 \times 888/8) - 8 \times 8) \\
&:= 99 \times 99 + (((9 + 9 + 9)/9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9710 &:= (11 - 1) \times (1 + ((1+1) \times (1 + ((11 + 11))^{1+1}))) \\
&:= 2 \times (2 + 2) + (22 \times ((22 - 2/2)^2)) \\
&:= 3 \times 3 + ((33 \times (3 \times 3 \times 33 - 3)) - 3/3) \\
&:= (4/4 + 4) \times ((44 \times 44 + (4 + 4)/4) + 4) \\
&:= (5 + 5) \times ((5 - 5/5)^{5/5+5} - 5^5) \\
&:= 6 + (66 \times (666/6 + 6 \times 6) + ((6 + 6)/6)) \\
&:= 7 + ((77 \times (77 + 7 \times 7)) + 7/7) \\
&:= 8 + (88/8 \times (((8 + 8)/8) - 8) + 888) \\
&:= 9 + (99 \times 99 - (9/9 + 99))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9715 &:= 111 + ((111 - 1 - 1 - 11))^{1+1} \\
&:= 2 + (22 \times ((22 - 2/2)^2)) + 22/2 \\
&:= (3 - 3/3 + 3) \times (((3 \times (3 + 3))^3 - 3)/3) \\
&:= 444/4 + (4 \times (((4 - 4/4) + 4)^4)) \\
&:= (5 \times ((5/5 + 5)^5 / (5 - 5/5))) - 5 \\
&:= (66 + 6/6) \times ((6 + 6) \times (6 + 6) + 6/6) \\
&:= 7 + (((77 \times (77 + 7 \times 7)) - 7/7) + 7) \\
&:= (88/8 \times (888 + 8/8)) - 8 \times 8 \\
&:= 99 \times 99 + (((99 + 9 + 9)/9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9706 &:= (1 + 1) \times (1 + (1 + (11 \times ((11 + (11-1))^{1+1})))) \\
&:= 2 + (22 \times ((22 - 2/2)^2)) + 2 \\
&:= 3 + ((33 \times (3 \times 3 \times 33 - 3)) + 3/3) \\
&:= ((4 + 4)/4 + 44) \times (4^4 - (44 + 4/4)) \\
&:= 5 + ((55 \times ((5 \times 5 + 5) + 5)) + (5/5 + 5)^5) \\
&:= 6 + (66 \times (666/6 + 6 \times 6) - ((6 + 6)/6)) \\
&:= 77/7 + ((77 \times (77 + 7 \times 7)) - 7) \\
&:= (8 + 8)/8 + ((88 \times 888/8) - 8 \times 8) \\
&:= 99 \times 99 + (((9 \times 9 - 9)/9 + 9) - 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9711 &:= 1 + ((11 - 1) \times (1 + ((1+1) \times (1 + ((11 + 11))^{1+1})))) \\
&:= 2 + (((22 - 2) \times (22^2 + 2)) - 22/2) \\
&:= 3 \times ((33 \times (3 \times 33 - 3/3)) + 3) \\
&:= 44/4 + ((4/4 + 4) \times (44 \times 44 + 4)) \\
&:= (5 - 5/5 + 5) \times ((5 - 5/5)^5 + 55) \\
&:= (666/6 + 6) \times (66/6 + 66 + 6) \\
&:= 7 + ((77 \times (77 + 7 \times 7)) + ((7 + 7)/7)) \\
&:= (8 \times 8 \times (8 \times 8 + 88)) - (8/8 + 8 + 8) \\
&:= 9 + (99 \times (99 - 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9716 &:= 1 + (111 + ((111 - 1 - 1 - 11))^{1+1}) \\
&:= ((22 - 2) \times (22^2 + 2)) - 2 - 2 \\
&:= (3^3 \times (333 + 3^3)) - (3/3 + 3) \\
&:= 4 + (4 \times ((4 \times ((4 + 4) \times 44 + 4^4)) - 4)) \\
&:= 5 + ((5 - 5/5 + 5) \times ((5 - 5/5)^5 + 55)) \\
&:= 6/6 + ((66 + 6/6) \times ((6 + 6) \times (6 + 6) + 6/6)) \\
&:= 7 + ((77 \times (77 + 7 \times 7)) + 7) \\
&:= (8 \times 8 \times (8 \times 8 + 88)) - (88 + 8)/8 \\
&:= 99 \times 99 + (((9 - 9 \times 9)/9 + 9) - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9707 &:= 1 + ((1+1) \times (1 + (1 + (11 \times ((11 + (11-1))^{1+1})))) \\
&:= 2 + (((22 \times ((22 - 2/2)^2)) + 2/2) + 2) \\
&:= 3 + (((33 \times (3 \times 3 \times 33 - 3)) - 3/3) + 3) \\
&:= 4 \times 4 + (44/4 \times ((4/4 + 4)^4 + 4^4)) \\
&:= (((55 + 5)/5) + 5) \times ((5^5 + 5)/5 - 55) \\
&:= 6 + (66 \times (666/6 + 6 \times 6) - 6/6) \\
&:= 7 + ((77 \times (77 + 7 \times 7)) - ((7 + 7)/7)) \\
&:= 8 + ((88/8 \times ((888 - 8) + 8/8)) + 8) \\
&:= 9 + ((99 \times 99 - ((999 + 9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9712 &:= (11 \times (1 + ((1+1) \times ((11 + (11-1))^{1+1})))) - 1 \\
&:= 2 \times (22 \times (222 - 2)) + 2^{2+2} \\
&:= 3 + ((3^3 \times (333 + 3^3)) - 33/3) \\
&:= 4 \times (4 \times ((4 + 4) \times 44 + 4^4)) - 4 \\
&:= (55/5 + 5) \times (((55 \times 55 + 5) + 5)/5) \\
&:= ((6 + 6)/6)^6 + ((6 + 6) \times ((66 \times (6 + 6) + 6) + 6)) \\
&:= ((77 - 7)/7) + (77 \times (77 + 7 \times 7)) \\
&:= (8 \times 8 \times (8 \times 8 + 88)) - 8 - 8 \\
&:= 9 + ((99 \times (99 - 9/9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9717 &:= 1 + (1 + (111 + ((111 - 1 - 1 - 11))^{1+1})) \\
&:= ((22 - 2) \times (22^2 + 2)) - 2/2 - 2 \\
&:= (3^3 \times (333 + 3^3)) - 3 \\
&:= (4 \times (4 \times ((4 + 4) \times 44 + 4^4))) - 44/4 \\
&:= 5 + ((55/5 + 5) \times (((55 \times 55 + 5) + 5)/5)) \\
&:= 6 + ((666/6 + 6) \times (66/6 + 66 + 6)) \\
&:= 7 + (((77 \times (77 + 7 \times 7)) + 7/7) + 7) \\
&:= (8 \times 8 \times (8 \times 8 + 88)) - 88/8 \\
&:= 99 \times 99 - (((9 + 9 + 9)/9) + 9 \times 9)
\end{aligned}$$

- 9718 := $((11^{1+1} - 1) \times (11 - 1 - 1)^{1+1}) - 1 - 1$
:= $((22 - 2) \times (22^2 + 2)) - 2$
:= $3/3 + ((3^3 \times (333 + 3^3)) - 3)$
:= $(44 - 4/4) \times ((444/(4 + 4)/4) + 4)$
:= $(5 \times ((5/5 + 5)^5 / (5 - 5/5))) - (5 + 5)/5$
:= $(6 \times 6 \times (666 - 6 \times 66)) - (6 + 6)/6$
:= $7 + (((77 \times (77 + 7 \times 7)) + ((7 + 7)/7)) + 7)$
:= $(8 - 88)/8 + (8 \times 8 \times (8 \times 8 + 88))$
:= $99 \times 99 - (((9 + 9)/9) + 9 \times 9)$
- 9719 := $((11^{1+1} - 1) \times (11 - 1 - 1)^{1+1}) - 1$
:= $((22 - 2) \times (22^2 + 2)) - 2/2$
:= $(3^3 \times (333 + 3^3)) - 3/3$
:= $4 + ((4 \times (((4 - 4/4) + 4)^4)) + 444/4)$
:= $(5 \times ((5/5 + 5)^5 / (5 - 5/5))) - 5/5$
:= $(6 \times 6 \times (666 - 6 \times 66)) - 6/6$
:= $7 + ((77 \times (77 + 7 \times 7)) + ((77 - 7)/7))$
:= $(8 \times 8 \times (8 \times 8 + 88)) - (8/8 + 8)$
:= $99 \times 99 - (9/9 + 9 \times 9)$
- 9720 := $(11^{1+1} - 1) \times (11 - 1 - 1)^{1+1}$
:= $(22 - 2) \times (22^2 + 2)$
:= $3^3 \times (333 + 3^3)$
:= $(4/4 + 4) \times ((44 \times 44 + 4) + 4)$
:= $5 \times ((5/5 + 5)^5 / (5 - 5/5))$
:= $6 \times 6 \times (666 - 6 \times 66)$
:= $(77/7 + 7) \times (7 \times 77 + 7/7)$
:= $(8 \times 8 \times (8 \times 8 + 88)) - 8$
:= $9 \times (999 + 9 \times 9)$
- 9721 := $1 + ((11^{1+1} - 1) \times (11 - 1 - 1)^{1+1})$
:= $2/2 + ((22 - 2) \times (22^2 + 2))$
:= $3/3 + (3^3 \times (333 + 3^3))$
:= $4/4 + ((4/4 + 4) \times ((44 \times 44 + 4) + 4))$
:= $5/5 + (5 \times ((5/5 + 5)^5 / (5 - 5/5)))$
:= $6/6 + (6 \times 6 \times (666 - 6 \times 66))$
:= $((7 + 7)/7)^7 \times (77 - 7/7) - 7$
:= $8/8 + ((8 \times 8 \times (8 \times 8 + 88)) - 8)$
:= $9/9 + (9 \times (999 + 9 \times 9))$
- 9722 := $1 + (1 + ((11^{1+1} - 1) \times (11 - 1 - 1)^{1+1}))$
:= $2 + ((22 - 2) \times (22^2 + 2))$
:= $3 + ((3^3 \times (333 + 3^3)) - 3/3)$
:= $4 + ((44 - 4/4) \times ((444/(4 + 4)/4) + 4))$
:= $(5 + 5)/5 + (5 \times ((5/5 + 5)^5 / (5 - 5/5)))$
:= $(6 + 6)/6 + (6 \times 6 \times (666 - 6 \times 66))$
:= $7 + (((77 \times (77 + 7 \times 7)) - 7/7) + 7) + 7$
:= $(8 + 8)/8 + ((8 \times 8 \times (8 \times 8 + 88)) - 8)$
:= $(9 + 9)/9 + (9 \times (999 + 9 \times 9))$
- 9723 := $((1 + 1) \times ((1 + 1) \times (11 \times ((1 + 1) \times 111 - 1)))) - 1$
:= $(22 \times (2 \times 222 - 2)) - 2/2$
:= $3 + (3^3 \times (333 + 3^3))$
:= $44 + ((44 \times (4 \times 44 + 44)) - 4/4)$
:= $5^5 + ((55 \times (5 \times 5 \times 5 - 5)) - ((5 + 5)/5))$
:= $(6/6 + 6) \times (((6 \times 6/(6 + 6))^6) - 6) + 666$
:= $7 + (((77 \times (77 + 7 \times 7)) + 7) + 7)$
:= $8 + ((88/8 \times (888 + 8/8)) - 8 \times 8)$
:= $99 \times 99 + (((9 + 9 + 9)/9) - 9 \times 9)$
- 9724 := $(1 + 1) \times ((1 + 1) \times (11 \times ((1 + 1) \times 111 - 1)))$
:= $22 \times (2 \times 222 - 2)$
:= $3 + ((3^3 \times (333 + 3^3)) + 3/3)$
:= $44 + (44 \times (4 \times 44 + 44))$
:= $5^5 + ((55 \times (5 \times 5 \times 5 - 5)) - 5/5)$
:= $((6 + 6)/6 + 66) \times ((6 + 6) \times (6 + 6) - 6/6)$
:= $((7 \times (7 + 7) + 7/7)^{(7+7)/7}) - 77$
:= $88/8 \times (888 - 8 \times 8/(8 + 8))$
:= $99/9 \times (((9 + 9)/9) - 9) + 9 \times 99$
- 9725 := $1 + ((1 + 1) \times ((1 + 1) \times (11 \times ((1 + 1) \times 111 - 1))))$
:= $2/2 + (22 \times (2 \times 222 - 2))$
:= $(3 - 3/3 + 3) \times (((3 \times (3 + 3))^3 + 3)/3)$
:= $44 + ((44 \times (4 \times 44 + 44)) + 4/4)$
:= $5^5 + (55 \times (5 \times 5 \times 5 - 5))$
:= $6 + ((6 \times 6 \times (666 - 6 \times 66)) - 6/6)$
:= $((7 + 7)/7)^7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) - 7)$
:= $8 + ((8 \times 8 \times (8 \times 8 + 88)) - (88/8))$
:= $99 \times 99 + (((9 \times 9 + 9)/9) - 9 \times 9)$
- 9726 := $(1 + 1) \times (1 + ((1 + 1) \times (11 \times ((1 + 1) \times 111 - 1))))$
:= $2 + (22 \times (2 \times 222 - 2))$
:= $3 + ((3^3 \times (333 + 3^3)) + 3)$
:= $(4 \times (4 \times ((4 + 4) \times 44 + 4^4))) - (4 + 4)/4$
:= $5^5 + ((55 \times (5 \times 5 \times 5 - 5)) + 5/5)$
:= $6 + (6 \times 6 \times (666 - 6 \times 66))$
:= $(7 \times 77 \times (7 + 7)) + (((7 + 7 + 7)/7)^7 - 7)$
:= $(8 \times 8 \times (8 \times 8 + 88)) - (8 + 8)/8$
:= $9 + (99 \times 99 - (((9 + 9 + 9)/9) + 9 \times 9))$
- 9727 := $((1 + 1)^{11-1-1} \times (((1 + 1) \times (11 - 1)) - 1)) - 1$
:= $2 + ((22 \times (2 \times 222 - 2)) + 2/2)$
:= $3 + (((3^3 \times (333 + 3^3)) + 3/3) + 3)$
:= $(4 \times (4 \times ((4 + 4) \times 44 + 4^4))) - 4/4$
:= $5^5 + ((55 \times (5 \times 5 \times 5 - 5)) + ((5 + 5)/5))$
:= $6 + ((6 \times 6 \times (666 - 6 \times 66)) + 6/6)$
:= $7 + ((77/7 + 7) \times (7 \times 77 + 7/7))$
:= $(8 \times 8 \times (8 \times 8 + 88)) - 8/8$
:= $9 + (99 \times 99 - (((9 + 9)/9) + 9 \times 9))$
- 9728 := $(1 + 1)^{11-1-1} \times (((1 + 1) \times (11 - 1)) - 1)$
:= $2 + ((22 \times (2 \times 222 - 2)) + 2)$
:= $(3 \times 3 + 3)^3 + ((33/3 + 3 \times 3)^3)$
:= $4 \times (4 \times ((4 + 4) \times 44 + 4^4))$
:= $(55/5 + 5) \times (((5^5 - (55 + 5))/5) - 5)$
:= $((6 + 6)/6)^6 \times (6 \times 6 \times 6 - ((6 + 6)/6)^6)$
:= $((7 + 7)/7)^7 \times (77 - 7/7)$
:= $8 \times 8 \times (8 \times 8 + 88)$
:= $(9/9 + 9 + 9) \times ((9 + 9)/9)^9$
- 9729 := $1 + ((1 + 1)^{11-1-1} \times (((1 + 1) \times (11 - 1)) - 1))$
:= $2 + (((22 \times (2 \times 222 - 2)) + 2/2) + 2)$
:= $3 \times ((3 \times (3 \times (333 + 3^3))) + 3)$
:= $4/4 + (4 \times (4 \times ((4 + 4) \times 44 + 4^4)))$
:= $5 + (((55 \times (5 \times 5 \times 5 - 5)) - 5/5) + 5^5)$
:= $(6 \times 6/(6 + 6) + 6) \times ((6 \times 6 \times (6 \times 6 - 6)) + 6/6)$
:= $7/7 + (((7 + 7)/7)^7 \times (77 - 7/7))$
:= $8/8 + (8 \times 8 \times (8 \times 8 + 88))$
:= $9 + (9 \times (999 + 9 \times 9))$
- 9730 := $(11 - 1) \times (1 + ((1 + 1) \times (11 - 1 - 1)^{1+1}))$
:= $2 + (((22 \times (2 \times 222 - 2)) + 2) + 2)$
:= $3^3 + ((33 \times (3 \times 3 \times 33 - 3)) + 3/3)$
:= $(4 + 4)/4 + (4 \times (4 \times ((4 + 4) \times 44 + 4^4)))$
:= $5 + ((55 \times (5 \times 5 \times 5 - 5)) + 5^5)$
:= $6 + (((6 + 6)/6 + 66) \times ((6 + 6) \times (6 + 6) - 6/6))$
:= $77 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7))$
:= $(8 + 8)/8 + (8 \times 8 \times (8 \times 8 + 88))$
:= $9 + ((9 \times (999 + 9 \times 9)) + 9/9)$
- 9731 := $11 + ((11^{1+1} - 1) \times (11 - 1 - 1)^{1+1})$
:= $22/2 + ((22 - 2) \times (22^2 + 2))$
:= $33/3 + (3^3 \times (333 + 3^3))$
:= $4 + ((4 \times (4 \times ((4 + 4) \times 44 + 4^4))) - 4/4)$
:= $5 + (((55 \times (5 \times 5 \times 5 - 5)) + 5^5) + 5/5)$
:= $66/6 + (6 \times 6 \times (666 - 6 \times 66))$
:= $7 + (((7 \times (7 + 7) + 7/7)^{(7+7)/7}) - 77)$
:= $88/8 + ((8 \times 8 \times (8 \times 8 + 88)) - 8)$
:= $99/9 + (9 \times (999 + 9 \times 9))$
- 9732 := $(1 + 11) \times (1 + ((11 - 1) \times (11 - 1 - 1)^{1+1}))$
:= $2 \times (((22 \times (222 - 2/2)) + 2) + 2)$
:= $3 + ((3^3 \times (333 + 3^3)) + 3 \times 3)$
:= $4 + (4 \times (4 \times ((4 + 4) \times 44 + 4^4)))$
:= $5 + (((55 \times (5 \times 5 \times 5 - 5)) + ((5 + 5)/5)) + 5^5)$
:= $6 + ((6 \times 6 \times (666 - 6 \times 66)) + 6)$
:= $((7 + 7)/7)^7 + (7 \times (7 \times (7 + 7) \times (7 + 7)))$
:= $8 \times 8/(8 + 8) + (8 \times 8 \times (8 \times 8 + 88))$
:= $99 \times 99 + ((99 + 9)/9 - 9 \times 9)$

- 9733 := $1 + ((1 + 11) \times (1 + ((11 - 1) \times (11 - 1 - 1)^{1+1})))$
:= $2 + (((22 - 2) \times (22^2 + 2)) + 22/2)$
:= $3 + (((3^3 \times (333 + 3^3)) + 3 \times 3) + 3/3)$
:= $((44 - 4)/4)^4 - (44/4 + 4^4)$
:= $5 + ((55/5 + 5) \times ((5^5 - (55 + 5))/5) - 5)$
:= $6 + (((6 \times 6 \times (666 - 6 \times 66)) + 6/6) + 6)$
:= $(7 \times 77 \times (7 + 7)) + ((7 + 7 + 7)/7)^7$
:= $8 + (((8 \times 8 \times (8 \times 8 + 88)) - (88/8)) + 8)$
:= $9 + ((99/9) \times (((9 + 9)/9) - 9) + 9 \times 99)$
- 9734 := $(11 \times (1 + ((1 + 1) \times (1 + ((11 + (11 - 1))^{1+1})))) - 1$
:= $(2 \times (22 \times 222 - 2^{2+2})) - 2$
:= $3 + ((3^3 \times (333 + 3^3)) + 33/3)$
:= $(4 - 44)/4 + (((44 - 4)/4)^4 - 4^4)$
:= $((5 + 5 + 5) \times ((5^5 - 5)/5 + 5 \times 5)) - 5/5$
:= $6 + (((6 + 6)/6)^6 \times (6 \times 6 \times 6 - ((6 + 6)/6)^6))$
:= $7 + (((77/7 + 7) \times (7 \times 77 + 7/7)) + 7)$
:= $8 + ((8 \times 8 \times (8 \times 8 + 88)) - ((8 + 8)/8))$
:= $9999 - (((9 + 9)/9)^{9-9/9} + 9)$
- 9735 := $11 \times (1 + ((1 + 1) \times (1 + ((11 + (11 - 1))^{1+1}))))$
:= $22/2 + (22 \times (2 \times 222 - 2))$
:= $33 + (33 \times (3 \times 3 \times 33 - 3))$
:= $(4/4 + 4) \times (44 \times 44 + 44/4)$
:= $(5 + 5 + 5) \times ((5^5 - 5)/5 + 5 \times 5)$
:= $(66 - 66/6) \times (666/6 + 66)$
:= $7 + (((7 + 7)/7)^7 \times (77 - 7/7))$
:= $8 + ((8 \times 8 \times (8 \times 8 + 88)) - 8/8)$
:= $99/9 \times (((9 + 9 + 9)/9) - 9) + 9 \times 99$
- 9736 := $((1 + 1)^{11} + ((11 \times (1 + 11))^{1+1})/(1 + 1))$
:= $2 \times (22 \times 222 - 2^{2+2})$
:= $3/3 + ((33 \times (3 \times 3 \times 33 - 3)) + 33)$
:= $((44 - 4)/4)^4 - (4^4 + 4 + 4)$
:= $55555/5 - 5 \times 5 \times 55$
:= $666 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - ((6 + 6)/6))$
:= $7 + (((7 + 7)/7)^7 \times (77 - 7/7)) + 7/7$
:= $8 + (8 \times 8 \times (8 \times 8 + 88))$
:= $9 + ((99 \times 99 - ((9 + 9)/9) + 9 \times 9) + 9)$
- 9737 := $1 + (((1 + 1)^{11} + ((11 \times (1 + 11))^{1+1})/(1 + 1))$
:= $2 + ((22 \times (2 \times 222 - 2)) + 22/2)$
:= $(3 \times (3 \times 33 \times 33)) - ((3/3 + 3)^3)$
:= $4 + (((44 - 4)/4)^4 - (44/4 + 4^4))$
:= $5^5 + ((55 \times (5 \times 5 \times 5 - 5)) + ((55 + 5)/5))$
:= $666 + (6 \times 6 \times 6 \times (6 \times 6 + 6) - 6/6)$
:= $7 + ((7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7)) + 77)$
:= $8 + ((8 \times 8 \times (8 \times 8 + 88)) + 8/8)$
:= $9 + ((9/9 + 9 + 9) \times ((9 + 9)/9)^9)$
- 9738 := $(1 + 1) \times (((1 + 1) \times ((1 + 1) \times (11 \times 111 - 1))) - 11)$
:= $2 + (2 \times (22 \times 222 - 2^{2+2}))$
:= $3 \times ((3 \times (33 \times 33 - (3 + 3))) - 3)$
:= $((44 - 4)/4)^4 - (((4 + 4)/4 + 4^4) + 4)$
:= $(5/5 + 5) \times ((5 \times (5 \times (55 + 5 + 5))) - ((5 + 5)/5))$
:= $666 + 6 \times 6 \times 6 \times (6 \times 6 + 6)$
:= $(77/7 + 7) \times (7 \times 77 + ((7 + 7)/7))$
:= $8 + ((8 \times 8 \times (8 \times 8 + 88)) + ((8 + 8)/8))$
:= $9 + ((9 \times (999 + 9 \times 9)) + 9)$
- 9739 := $11 + ((1 + 1)^{11-1-1} \times (((1 + 1) \times (11 - 1)) - 1))$
:= $((22 - 2) \times ((22^2 + 2/2) + 2)) - 2/2$
:= $3/3 + (3 \times ((3 \times (33 \times 33 - (3 + 3))) - 3))$
:= $((44 - 4)/4)^4 - ((4/4 + 4^4) + 4)$
:= $(5 \times ((5 + 5 + 5) \times (5 \times 5 \times 5 + 5))) - 55/5$
:= $6/6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + 666)$
:= $7 + ((7 \times (7 \times (7 + 7) \times (7 + 7))) + ((7 + 7)/7)^7)$
:= $88/8 + (8 \times 8 \times (8 \times 8 + 88))$
:= $9 + (((9 \times (999 + 9 \times 9)) + 9/9) + 9)$
- 9740 := $(1 + 1) \times ((11 - 1) \times (1 + (1 + (1 + ((11 + 11))^{1+1}))))$
:= $(22 - 2) \times ((22^2 + 2/2) + 2)$
:= $3 + ((3 \times (3 \times 33 \times 33)) - ((3/3 + 3)^3))$
:= $((44 - 4)/4)^4 - (4^4 + 4)$
:= $(5 + 5) \times (((5 - 5/5)^5 - 55) + 5)$
:= $666 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + ((6 + 6)/6))$
:= $7 + ((7 \times 77 \times (7 + 7)) + ((7 + 7 + 7)/7)^7)$
:= $((88 + 8)/8) + (8 \times 8 \times (8 \times 8 + 88))$
:= $9 + ((9 \times (999 + 9 \times 9)) + (99/9))$
- 9741 := $(1 + 1 + 1) \times (111 + ((1 + 111)/(1 + 1))^{1+1})$
:= $22 + (((22 - 2) \times (22^2 + 2)) - 2/2)$
:= $(3 \times (3 \times (33 \times 33 - 3))) - 33$
:= $4/4 + (((44 - 4)/4)^4 - (4^4 + 4))$
:= $5 + (55555/5 - 5 \times 5 \times 55)$
:= $6 + ((66 - 66/6) \times (666/6 + 66))$
:= $7 + (((77/7 + 7) \times (7 \times 77 + 7/7)) + 7) + 7$
:= $(88/8 \times (888 - 8/8)) - 8 - 8$
:= $9 + (((99 + 9)/9 - 9 \times 9) + 99 \times 99)$
- 9742 := $11111 - ((111/(1 + 1 + 1))^{1+1})$
:= $22 + ((22 - 2) \times (22^2 + 2))$
:= $3/3 + ((3 \times (3 \times (33 \times 33 - 3))) - 33)$
:= $((44 - 4)/4)^4 - ((4 + 4)/4 + 4^4)$
:= $55 + (((5 + 5)^{5-5/5}) - (5^5 + 5)/(5 + 5))$
:= $6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) - ((6 + 6)/6)) + 666)$
:= $7 + (((7 + 7)/7)^7 \times (77 - 7/7)) + 7$
:= $8 + (((8 \times 8 \times (8 \times 8 + 88)) - ((8 + 8)/8)) + 8)$
:= $99 \times 99 + (((99 + 99)/9) - 9 \times 9)$
- 9743 := $((1 + 111) \times (111 - ((1 + 1) \times (1 + 11)))) - 1$
:= $22 + (((22 - 2) \times (22^2 + 2)) + 2/2)$
:= $3 \times 3333 - ((3/3 + 3)^{3+3+3})$
:= $((44 - 4)/4)^4 - (4/4 + 4^4)$
:= $55 + (((5 + 5)^{5-5/5}) + ((5 - 5^5)/(5 + 5)))$
:= $6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) - 6/6) + 666)$
:= $7 \times 7 + ((77 \times (77 + 7 \times 7)) - (7/7 + 7))$
:= $8 + (((8 \times 8 \times (8 \times 8 + 88)) - 8/8) + 8)$
:= $9999 - (((9 + 9)/9)^{9-9/9})$
- 9744 := $(1 + 111) \times (111 - ((1 + 1) \times (1 + 11)))$
:= $(2 \times 22 \times 222) - 22 - 2$
:= $(33/3 + 3) \times (3^{3+3} - 33)$
:= $((44 - 4)/4)^4 - 4^4$
:= $(55/5 + 5) \times (((5^5 - 55)/5) - 5)$
:= $6 + (6 \times 6 \times 6 \times (6 \times 6 + 6) + 666)$
:= $7 \times 7 + ((77 \times (77 + 7 \times 7)) - 7)$
:= $8 + ((8 \times 8 \times (8 \times 8 + 88)) + 8)$
:= $(99 + 9)/9 \times (9 \times (9 \times 9 + 9) + ((9 + 9)/9))$
- 9745 := $1 + ((1 + 111) \times (111 - ((1 + 1) \times (1 + 11))))$
:= $22^2 + ((22 - 2/2)^{2/2+2})$
:= $3/3 + ((33/3 + 3) \times (3^{3+3} - 33))$
:= $4/4 + (((44 - 4)/4)^4 - 4^4)$
:= $5 \times (((5/5 + 5)^5 / (5 - 5/5)) + 5)$
:= $6 + ((6 \times 6 \times 6 \times (6 \times 6 + 6) + 666) + 6/6)$
:= $(77 \times ((7 + 7)/7)^7) - 777/7$
:= $8 + (((8 \times 8 \times (8 \times 8 + 88)) + 8/8) + 8)$
:= $99 \times 99 - ((999 + 9)/(9 + 9))$
- 9746 := $(1 + 1) \times (11 \times (((1 + 1) \times (1 + 1) \times 111) - 1))$
:= $22 \times (((22 - 2/2)^2) + 2)$
:= $(3 \times (3 \times (33 \times 33 - (3 + 3)))) - 3/3$
:= $(4 + 4)/4 + (((44 - 4)/4)^4 - 4^4)$
:= $5/5 + (5 \times (((5/5 + 5)^5 / (5 - 5/5)) + 5))$
:= $((66 + 66)/6) \times ((6 \times (66 + 6)) + (66/6))$
:= $((7 - 777)/7) + (77 \times ((7 + 7)/7)^7)$
:= $88/8 \times (888 - ((8 + 8)/8))$
:= $9 + (((9/9 + 9 + 9) \times ((9 + 9)/9)^9) + 9)$
- 9747 := $(1 + 1 + 1) \times ((1 + (1 + 111)/(1 + 1))^{1+1})$
:= $2/2 + (22 \times (((22 - 2/2)^2) + 2))$
:= $3 \times (3 \times (33 \times 33 - (3 + 3)))$
:= $4 + (((44 - 4)/4)^4 - (4/4 + 4^4))$
:= $(5 - (5 + 5)/5) \times ((5 \times 5 \times 5 - 5/5) + 5^5)$
:= $((66 \times 6/(6 + 6)) - 6) \times (6 \times (66 - 6) + 6/6)$
:= $7 + (((7 \times 77 \times (7 + 7)) + ((7 + 7 + 7)/7)^7) + 7)$
:= $(88/8 + 8) \times (8 \times 8 \times 8 + 8/8)$
:= $999 + 9 \times 9 \times (99 + 9)$

$$\begin{aligned}
\blacktriangleright 9748 &:= 1 + ((1 + 1 + 1) \times ((1 + (1 + 111)/(1 + 1))^{1+1})) \\
&:= 2 + (22 \times ((22 - 2/2)^2) + 2) \\
&:= 3/3 + (3 \times (3 \times (33 \times 33 - (3 + 3)))) \\
&:= 4 + (((44 - 4)/4)^4 - 4^4) \\
&:= (5 \times ((5 + 5 + 5) \times (5 \times 5 \times 5 + 5))) - (5 + 5)/5 \\
&:= (((66 - 6)/6)^{6-(6+6)/6}) - 6 \times (6 \times 6 + 6) \\
&:= 7 \times 7 + (((77 \times (77 + 7 \times 7)) - ((7 + 7 + 7)/7)) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 + 88)) + ((88 + 8)/8)) \\
&:= 9/9 + (9 \times 9 \times (99 + 9) + 999)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9749 &:= ((1 + 1)^{1+1+1} \times (11 \times 111 - 1)) - 11 \\
&:= 2 + (22 \times ((22 - 2/2)^2) + 2) + 2/2 \\
&:= 3 + ((3 \times (3 \times (33 \times 33 - (3 + 3)))) - 3/3) \\
&:= 4 + (((44 - 4)/4)^4 - 4^4) + 4/4 \\
&:= (5 \times ((5 + 5 + 5) \times (5 \times 5 \times 5 + 5))) - 5/5 \\
&:= ((6/6 - 66) \times (66 - 6 \times 6 \times 6)) - 6/6 \\
&:= 7 + (((7 + 7)/7)^7 \times (77 - 7/7)) + 7 + 7 \\
&:= (88/8 \times (888 - 8/8)) - 8 \\
&:= 9 + (((9 \times (999 + 9 \times 9)) + (99/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9750 &:= (1 + 1 + 1) \times (1 + ((1 + (1 + 111)/(1 + 1))^{1+1})) \\
&:= (2 \times (22 \times 222 + 2)) - 22 \\
&:= 3 + (3 \times (3 \times (33 \times 33 - (3 + 3)))) \\
&:= 4 + (((44 - 4)/4)^4 - 4^4) + (4 + 4)/4 \\
&:= 5 \times ((5 + 5 + 5) \times (5 \times 5 \times 5 + 5)) \\
&:= (6/6 - 66) \times (66 - 6 \times 6 \times 6) \\
&:= 7 \times 7 + ((77 \times (77 + 7 \times 7)) - 7/7) \\
&:= 8/8 + ((88/8 \times (888 - 8/8)) - 8) \\
&:= (9/9 + 9) \times (9 \times (99 + 9) + (9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9751 &:= ((1 + 1)^{1+1+1} \times (11 \times 111 - (1 + 1))) - 1 \\
&:= 2/2 + ((2 \times (22 \times 222 + 2)) - 22) \\
&:= 3 + ((3 \times (3 \times (33 \times 33 - (3 + 3)))) + 3/3) \\
&:= 4 + (((44 - 4)/4)^4 - (4/4 + 4^4)) + 4 \\
&:= 5/5 + (5 \times ((5 + 5 + 5) \times (5 \times 5 \times 5 + 5))) \\
&:= 6/6 + ((6/6 - 66) \times (66 - 6 \times 6 \times 6)) \\
&:= 7 \times ((77 \times (77/7 + 7)) + 7) \\
&:= (88 \times 888/8) - (8/8 + 8 + 8) \\
&:= 99 \times 99 - ((9 \times 99 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9752 &:= (1 + 1)^{1+1+1} \times (11 \times 111 - (1 + 1)) \\
&:= 2 \times (22 \times 222 - 2 \times (2 + 2)) \\
&:= 33 + ((3^3 \times (333 + 3^3)) - 3/3) \\
&:= 4 + (((44 - 4)/4)^4 - 4^4) + 4 \\
&:= (5 + 5)/5 + (5 \times ((5 + 5 + 5) \times (5 \times 5 \times 5 + 5))) \\
&:= (6 + 6)/6 + ((6/6 - 66) \times (66 - 6 \times 6 \times 6)) \\
&:= 7/7 + ((77 \times (77 + 7 \times 7)) + 7 \times 7) \\
&:= (88 \times 888/8) - 8 - 8 \\
&:= 99 \times 99 + ((9 - 9 \times 99)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9753 &:= 1 + ((1 + 1)^{1+1+1} \times (11 \times 111 - (1 + 1))) \\
&:= (2 \times (22 \times 222 - 2)) - 22/2 \\
&:= 33 + (3^3 \times (333 + 3^3)) \\
&:= 4 + (((44 - 4)/4)^4 - 4^4) + 4/4 + 4 \\
&:= (5 - (5 + 5)/5) \times ((5 \times 5 \times 5 + 5^5) + 5/5) \\
&:= 6 + (((66 \times 6/(6 + 6)) - 6) \times (6 \times (66 - 6) + 6/6)) \\
&:= 7 \times 7 + ((77 \times (77 + 7 \times 7)) + ((7 + 7)/7)) \\
&:= 8/8 + ((88 \times 888/8) - (8 + 8)) \\
&:= 9 + ((99 + 9)/9 \times (9 \times (9 \times 9 + 9) + ((9 + 9)/9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9754 &:= 1 + (1 + ((1 + 1)^{1+1+1} \times (11 \times 111 - (1 + 1)))) \\
&:= 2 + (2 \times (22 \times 222 - 2 \times (2 + 2))) \\
&:= 3/3 + ((3^3 \times (333 + 3^3)) + 33) \\
&:= (44 - 4)/4 + (((44 - 4)/4)^4 - 4^4) \\
&:= 5 + ((5 \times ((5 + 5 + 5) \times (5 \times 5 \times 5 + 5))) - 5/5) \\
&:= (6^{6-6/6}) + (66 \times (6 \times 6 - 6) - ((6 + 6)/6)) \\
&:= (777/7 \times (77/7 + 77)) - (7 + 7) \\
&:= 8 + (88/8 \times (888 - ((8 + 8)/8))) \\
&:= 9 + (99 \times 99 - ((999 + 9)/(9 + 9)))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9755 &:= 11111 - ((1 + 11) \times (1 + 1 + 111)) \\
&:= (2 \times 22 \times 222) - (22/2 + 2) \\
&:= 3 \times 3333 - ((3^{3+3} + 3)/3) \\
&:= 44/4 + (((44 - 4)/4)^4 - 4^4) \\
&:= 5 + (5 \times ((5 + 5 + 5) \times (5 \times 5 \times 5 + 5))) \\
&:= (6^{6-6/6}) + (66 \times (6 \times 6 - 6) - 6/6) \\
&:= 7 \times 7 + (((77 \times (77 + 7 \times 7)) - 7) + (77/7)) \\
&:= 8 + ((88/8 + 8) \times (8 \times 8 \times 8 + 8/8)) \\
&:= 9999 - (9 \times (9 + 9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9756 &:= (11 \times ((111 \times (1 + 1)^{1+1+1}) - 1)) - 1 \\
&:= 2 \times (22 \times 222 - (2 + 2 + 2)) \\
&:= 3 \times (3333 - 3 \times 3^3) \\
&:= ((4 \times 4 + 4) \times (444 + 44)) - 4 \\
&:= 5 + ((5 \times ((5 + 5 + 5) \times (5 \times 5 \times 5 + 5))) + 5/5) \\
&:= 6 \times (6 \times (666 - 6 \times 66) + 6) \\
&:= ((7 + 7)/7 + 7) \times ((77 \times (7 + 7) - 7/7) + 7) \\
&:= (88 \times 888/8) - (88 + 8)/8 \\
&:= 9999 - 9 \times (9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9757 &:= 11 \times ((111 \times (1 + 1)^{1+1+1}) - 1) \\
&:= (2 \times 22 \times 222) - 22/2 \\
&:= 3/3 + (3 \times (3333 - 3 \times 3^3)) \\
&:= 44/4 \times (((4 + 4) \times 444 - 4)/4) \\
&:= ((5 + 5)^{5-5/5}) - ((5 - (5 + 5)/5)^5) \\
&:= 6/6 + (66 \times (6 \times 6 - 6) + (6^{6-6/6})) \\
&:= 7 + (((77 \times (77 + 7 \times 7)) - 7/7) + 7 \times 7) \\
&:= 88/8 \times (888 - 8/8) \\
&:= 9/9 + (9999 - 9 \times (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9758 &:= 1 + (11 \times ((111 \times (1 + 1)^{1+1+1}) - 1)) \\
&:= (2 \times (22 \times 222 - (2 + 2))) - 2 \\
&:= 3 + (3 \times 3333 - ((3^{3+3} + 3)/3)) \\
&:= ((44 - 4)/4)^4 - 44 \times 44/(4 + 4) \\
&:= 5 + ((5 - (5 + 5)/5) \times ((5 \times 5 \times 5 + 5^5) + 5/5)) \\
&:= (6 + 6)/6 + (66 \times (6 \times 6 - 6) + (6^{6-6/6})) \\
&:= 7 + ((77 \times (77 + 7 \times 7)) + 7 \times 7) \\
&:= 8/8 + (88/8 \times (888 - 8/8)) \\
&:= (9/9 + 9 \times 9) \times ((99/9 + 99) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9759 &:= ((1 + 1)^{1+1+1} \times (11 \times 111 - 1)) - 1 \\
&:= 2 + ((2 \times 22 \times 222) - 22/2) \\
&:= 3 + (3 \times (3333 - 3 \times 3^3)) \\
&:= ((4 \times 4 + 4) \times (444 + 44)) - 4/4 \\
&:= ((55/5 + 5) \times (555 + 55)) - 5/5 \\
&:= 666/6 + ((6 + 6) \times ((66 \times (6 + 6) + 6) + 6)) \\
&:= 7 + (((77 \times (77 + 7 \times 7)) + 7 \times 7) + 7/7) \\
&:= (88 \times 888/8) - (8/8 + 8) \\
&:= (999/9 \times (99 - (99/9))) - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9760 &:= (1 + 1)^{1+1+1} \times (11 \times 111 - 1) \\
&:= 2 \times (22 \times 222 - (2 + 2)) \\
&:= 3 + ((3 \times (3333 - 3 \times 3^3)) + 3/3) \\
&:= (4 \times 4 + 4) \times (444 + 44) \\
&:= (55/5 + 5) \times (555 + 55) \\
&:= (6 - ((6 + 6)/6)) \times (6 \times 6 \times 66 + ((6 + 6)/6)^6) \\
&:= (7/7 + 7) \times ((77 \times 777/7 - 7)/7) \\
&:= (88 \times 888/8) - 8 \\
&:= 99 \times 99 - ((9 \times 9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9761 &:= 1 + ((1 + 1)^{1+1+1} \times (11 \times 111 - 1)) \\
&:= 2/2 + (2 \times (22 \times 222 - (2 + 2))) \\
&:= (3 \times ((3 \times (33 \times 33 - 3)) - 3)) - (3/3 + 3) \\
&:= 4/4 + ((4 \times 4 + 4) \times (444 + 44)) \\
&:= 5^5 + ((5/5 + 5) \times (5555/5 - 5)) \\
&:= (6 \times 6 + 6/6 + 6) \times (6 \times 6 \times 6 + 66/6) \\
&:= (777/7 \times (77/7 + 77)) - 7 \\
&:= 8/8 + ((88 \times 888/8) - 8) \\
&:= 99 \times 99 + ((9 - 9 \times 9 \times 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9762 &:= 1 + (1 + ((1 + 1)^{1+1+1} \times (11 \times 111 - 1))) \\
&:= (2 \times (22 \times 222 - 2)) - 2 \\
&:= (3 \times ((3 \times (33 \times 33 - 3)) - 3)) - 3 \\
&:= (4 + 4)/4 + ((4 \times 4 + 4) \times (444 + 44)) \\
&:= 5 + (((5 + 5)^{5-5/5}) - ((5 - (5 + 5)/5)^5)) \\
&:= 6 + (66 \times (6 \times 6 - 6) + (6^{6-6/6})) \\
&:= 7 \times 7 + ((77 \times (77 + 7 \times 7)) + (77/7)) \\
&:= (8 + 8)/8 + ((88 \times 888/8) - 8) \\
&:= 9 \times 9 + (99 \times 99 - (999/9 + 9))
\end{aligned}$$

- ▶ 9763 := $((1+1) \times ((1+1) \times (((1+1) \times 11 \times 111) - 1))) - 1$ ▶ 9768 := $11 \times (111 \times (1+1)^{1+1+1})$ ▶ 9773 := $1 + ((1+1) \times ((1+1) \times (1 + ((1+1) \times 11 \times 111))))$
- := $(2 \times (22 \times 222 - 2)) - 2/2$:= $2 \times 22 \times 222$:= $2/2 + (2 \times (22 \times 222 + 2))$
- := $(3 \times (3 \times (33 \times 33 - 3))) - 33/3$:= $33 \times (3 \times 3 \times 33 - 3/3)$:= $(3 \times (3 \times (33 \times 33 - 3))) - 3/3$
- := $4 + (((4 \times 4 + 4) \times (444 + 44)) - 4/4)$:= $44 \times (444 / ((4 + 4) / 4))$:= $4 + ((44 \times (444 / ((4 + 4) / 4))) + 4/4)$
- := $55 + ((5 - (5 + 5) / 5) \times (555 / 5 + 5^5))$:= $((5 + 5) / 5)^5 + 5 \times (5 \times 55 - (55 / 5))$:= $5^5 + (((55 + 5) / 5) \times (555 - 5 / 5))$
- := $6 + ((66 \times (6 \times 6 - 6) + (6^{6-6/6})) + 6/6)$:= $66 \times ((666 + 6) / 6 + 6 \times 6)$:= $6 + ((66 \times ((666 + 6) / 6 + 6 \times 6)) - 6/6)$
- := $7 + (((7 + 7) / 7 + 7) \times ((77 \times (7 + 7) - 7/7) + 7))$:= $777 / 7 \times (77 / 7 + 77)$:= $7 / 7 + (((77 \times (77 + 7 \times 7)) - 7) + 77)$
- := $(88 / 8 \times (888 + 8 / 8)) - 8 - 8$:= $88 \times 888 / 8$:= $8 + ((88 / 8 \times (888 - 8 / 8)) + 8)$
- := $99 \times 99 - ((99 / 9 + 9 + 9) + 9)$:= $999 / 9 \times (99 - (99 / 9))$:= $99 \times 99 - ((9 / 9 + 9 + 9) + 9)$
- ▶ 9764 := $(1+1) \times ((1+1) \times (((1+1) \times 11 \times 111) - 1))$ ▶ 9769 := $1 + (11 \times (111 \times (1+1)^{1+1+1}))$ ▶ 9774 := $(1+1) \times (1 + ((1+1) \times (1 + ((1+1) \times 11 \times 111))))$
- := $2 \times (22 \times 222 - 2)$:= $2/2 + (2 \times 22 \times 222)$:= $2 + (2 \times (22 \times 222 + 2))$
- := $(3 \times ((3 \times (33 \times 33 - 3)) - 3)) - 3/3$:= $3/3 + (33 \times (3 \times 3 \times 33 - 3/3))$:= $3 \times (3 \times (33 \times 33 - 3))$
- := $4 + ((4 \times 4 + 4) \times (444 + 44))$:= $4/4 + (44 \times (444 / ((4 + 4) / 4)))$:= $4 + (((4/4 + 4^4) \times (44 - ((4 + 4) / 4 + 4))) + 4)$
- := $((5 + 5 + 5) \times ((5^5 + 5) / 5 + 5 \times 5)) - 5/5$:= $5^5 + (55 / 5 \times ((55 \times 55 - 5) / 5))$:= $(5 - 5 / 5)^5 + 5 \times (5^5 - 5 \times 5 \times 55)$
- := $(6 - ((6 + 6) / 6)) \times ((6 \times 6 \times 66 - 6/6) + 66)$:= $6/6 + (66 \times ((666 + 6) / 6 + 6 \times 6))$:= $6 + (66 \times ((666 + 6) / 6 + 6 \times 6))$
- := $777 / 7 + (7 \times ((7 \times (7 + 7) \times (7 + 7)) + 7))$:= $7 / 7 + (777 / 7 \times (77 / 7 + 77))$:= $7 + (((7 + 7) \times 777) - 7777 / 7)$
- := $(88 \times 888 / 8) - 8 \times 8 / (8 + 8)$:= $8 / 8 + (88 \times 888 / 8)$:= $8 + ((88 \times 888 / 8) - ((8 + 8) / 8))$
- := $99 \times 99 - (((9 / 9 + 9 + 9) + 9) + 9)$:= $9 + (99 \times 99 - ((9 \times 9 \times 9 + 9) / (9 + 9)))$:= $99 \times 99 - (9 + 9 + 9)$
- ▶ 9765 := $1 + ((1+1) \times ((1+1) \times (((1+1) \times 11 \times 111) - 1)))$ ▶ 9770 := $1 + (1 + (11 \times (111 \times (1+1)^{1+1+1})))$ ▶ 9775 := $((1+1)^{1+1+1} \times (1 + 11 \times 111)) - 1$
- := $2/2 + (2 \times (22 \times 222 - 2))$:= $2 + (2 \times 22 \times 222)$:= $2 + ((2 \times (22 \times 222 + 2)) + 2/2)$
- := $3 \times (3 \times (33 \times 33 - 3)) - 3$:= $(3 \times (3 \times (33 \times 33 - 3))) - (3/3 + 3)$:= $3/3 + (3 \times (3 \times (33 \times 33 - 3)))$
- := $((4^4 - 4) / 4) \times (444 / 4 + 44)$:= $4 + ((4/4 + 4^4) \times (44 - ((4 + 4) / 4 + 4)))$:= $((4 - 4/4)^4 + 4) \times (444 / 4 + 4)$
- := $(5 + 5 + 5) \times ((5^5 + 5) / 5 + 5 \times 5)$:= $5 + ((5 + 5 + 5) \times ((5^5 + 5) / 5 + 5 \times 5))$:= $5 \times (((5 + 5 + 5) \times (5 \times 5 \times 5 + 5)) + 5)$
- := $(6/6 + 6) \times (((6 \times 6 / (6 + 6))^6) + 666)$:= $(6 + 6) / 6 + (66 \times ((666 + 6) / 6 + 6 \times 6))$:= $(6 \times 6 - 66/6) \times ((6 \times 66 - 6) + 6/6)$
- := $((7 + 7) / 7 + 7) \times (77 \times (7 + 7) + 7)$:= $7 \times 7 + (((7 + 7) / 7)^7 \times (77 - 7/7)) - 7$:= $7 + (777 / 7 \times (77 / 7 + 77))$
- := $8 + (88 / 8 \times (888 - 8 / 8))$:= $(8 + 8) / 8 + (88 \times 888 / 8)$:= $8 + ((88 \times 888 / 8) - 8 / 8)$
- := $99 \times 99 - ((9 + 9 + 9) + 9)$:= $99 \times 99 - (((99 + 99) / 9) + 9)$:= $9 / 9 + (99 \times 99 - (9 + 9 + 9))$
- ▶ 9766 := $(1+1) \times (((1+1) \times ((1+1) \times 11 \times 111)) - 1)$ ▶ 9771 := $1 + (1 + (1 + (11 \times (111 \times (1+1)^{1+1+1}))))$ ▶ 9776 := $(1+1)^{1+1+1} \times (1 + 11 \times 111)$
- := $(2 \times 22 \times 222) - 2$:= $2 + ((2 \times 22 \times 222) + 2/2)$:= $2 \times ((22 \times 222 + 2) + 2)$
- := $3/3 + (3 \times ((3 \times (33 \times 33 - 3)) - 3))$:= $(3 \times (3 \times (33 \times 33 - 3))) - 3$:= $3 + ((3 \times (3 \times (33 \times 33 - 3))) - 3/3)$
- := $(4/4 + 4^4) \times (44 - ((4 + 4) / 4 + 4))$:= $4 + ((44 \times (444 / ((4 + 4) / 4))) - 4/4)$:= $4 \times (((4 + 4) \times (44 + 4^4)) + 44)$
- := $5/5 + ((5 + 5 + 5) \times ((5^5 + 5) / 5 + 5 \times 5))$:= $555 + ((5 - 5/5 + 5) \times (5 - 5/5)^5)$:= $(5/5 + 5)^5 + (5 \times 5 \times (5 \times 5 + 55))$
- := $((6 + 6) / 6)^6 + 66 \times (666 / 6 + 6 \times 6)$:= $6 + ((6/6 + 6) \times (((6 \times 6 / (6 + 6))^6) + 666))$:= $((6 + 6) / 6) \times (((6 + 6) / 6)^{6+6}) + 66 \times (6 + 6)$
- := $7/7 + (((7 + 7) / 7 + 7) \times (77 \times (7 + 7) + 7))$:= $77 + ((77 \times (77 + 7 \times 7)) - (7/7 + 7))$:= $(7/7 + 7) \times ((77 \times 777 / 7 + 7) / 7)$
- := $(88 \times 888 / 8) - (8 + 8) / 8$:= $(88 / 8 \times (888 + 8 / 8)) - 8$:= $8 + (88 \times 888 / 8)$
- := $9/9 + (99 \times 99 - ((9 + 9 + 9) + 9))$:= $9 \times 9 + (99 \times 99 - 999 / 9)$:= $(9 + 9) / 9 + (99 \times 99 - (9 + 9 + 9))$
- ▶ 9767 := $(11 \times (111 \times (1+1)^{1+1+1})) - 1$ ▶ 9772 := $(1+1) \times ((1+1) \times (1 + ((1+1) \times 11 \times 111)))$ ▶ 9777 := $1 + ((1+1)^{1+1+1} \times (1 + 11 \times 111))$
- := $(2 \times 22 \times 222) - 2/2$:= $2 \times (22 \times 222 + 2)$:= $2/2 + (2 \times ((22 \times 222 + 2) + 2))$
- := $(3 \times (3 \times 33 \times 33)) - 3/3 - 33$:= $3/3 + ((3 \times (3 \times (33 \times 33 - 3))) - 3)$:= $3 + (3 \times (3 \times (33 \times 33 - 3)))$
- := $(44 \times (444 / ((4 + 4) / 4))) - 4/4$:= $4 + (44 \times (444 / ((4 + 4) / 4)))$:= $4/4 + (4 \times (((4 + 4) \times (44 + 4^4)) + 44))$
- := $5 + (((5 + 5)^{5-5/5}) - ((5 - (5 + 5) / 5)^5)) + 5$:= $(5 - 5/5) \times (5^5 - ((5^5 + 5 + 5) / 5 + 55))$:= $(5/5 + 5)^5 + (((5 + 5)^{5-5/5}) + 5) / 5$
- := $(66 \times ((666 + 6) / 6 + 6 \times 6)) - 6/6$:= $(6/6 + 6) \times ((6 \times (6 \times 6 \times 6 + 6)) + ((6 + 6) / 6)^6)$:= $(6^{6-6/6}) + ((6 \times 666 + 6) / ((6 + 6) / 6))$
- := $((7 + 7) \times 777) - 7777 / 7$:= $77 + ((77 \times (77 + 7 \times 7)) - 7)$:= $7 \times 7 + (((7 + 7) / 7)^7 \times (77 - 7/7))$
- := $(88 \times 888 / 8) - 8 / 8$:= $8 \times 8 / (8 + 8) + (88 \times 888 / 8)$:= $8 + ((88 \times 888 / 8) + 8 / 8)$
- := $9 + ((9/9 + 9 \times 9) \times ((99/9 + 99) + 9))$:= $99 \times 99 - (99/9 + 9 + 9)$:= $9 + (999/9 \times (99 - (99/9)))$

$$\begin{aligned}
\blacktriangleright 9778 &:= (11111 - 1 - 1 - 11^{1+1+1}) \\
&:= 2 + (2 \times ((22 \times 222 + 2) + 2)) \\
&:= 3 + ((3 \times (3 \times (33 \times 33 - 3))) + 3/3) \\
&:= ((44 - 4)/4)^4 - (444/(4 + 4)/4) \\
&:= 5 + (((55 + 5)/5) \times (555 - 5/5)) + 5^5 \\
&:= (((66 - 6)/6)^{6-(6+6)/6}) - (6 \times 6 \times 6 + 6) \\
&:= 77 + ((77 \times (77 + 7 \times 7)) - 7/7) \\
&:= 8 + ((88 \times 888/8) + ((8 + 8)/8)) \\
&:= 99 \times 99 - (99 + 99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9779 &:= 11 \times (1 + (111 \times (1 + 1)^{1+1+1})) \\
&:= 22/2 + (2 \times 22 \times 222) \\
&:= 33/3 \times (((33 \times 3^3) - 3) + 3/3) \\
&:= 44/4 \times (((4 + 4) \times 444 + 4)/4) \\
&:= 55/5 \times (((5^5 - 55)/5) + 5 \times 55) \\
&:= 66666/6 - (6 \times (6 \times 6 \times 6 + 6)) \\
&:= 77 + (77 \times (77 + 7 \times 7)) \\
&:= 88/8 \times (888 + 8/8) \\
&:= 99/9 \times (9 \times 99 - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9780 &:= 11111 - 11^{1+1+1} \\
&:= 2 \times (((22 \times 222 + 2) + 2) + 2) \\
&:= 3 + ((3 \times (3 \times (33 \times 33 - 3))) + 3) \\
&:= 4 \times (((4 - 4/4) + 4)^4) + 44 \\
&:= 5 + (5 \times (((5 + 5 + 5) \times (5 \times 5 \times 5 + 5)) + 5)) \\
&:= 6 + ((66 \times ((666 + 6)/6 + 6 \times 6)) + 6) \\
&:= 7/7 + ((77 \times (77 + 7 \times 7)) + 77) \\
&:= 8/8 + (88/8 \times (888 + 8/8)) \\
&:= 99 \times 99 - ((99 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9781 &:= 1 + (11111 - 11^{1+1+1}) \\
&:= 2 + ((2 \times 22 \times 222) + 22/2) \\
&:= (3 \times ((3 \times 33 \times 33) - 3)) - 33/3 \\
&:= 4/4 + (4 \times (((4 - 4/4) + 4)^4) + 44) \\
&:= 5 + ((5 \times 5 \times (5 \times 5 + 55)) + (5/5 + 5)^5) \\
&:= 6 + ((6 \times 6 - 66/6) \times ((6 \times 66 - 6) + 6/6)) \\
&:= 77 + ((77 \times (77 + 7 \times 7)) + ((7 + 7)/7)) \\
&:= (8 \times (8 \times (8 \times 8 + 88) + 8)) - 88/8 \\
&:= 99 \times 99 - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9782 &:= 1 + (1 + (11111 - 11^{1+1+1})) \\
&:= 2 + (2 \times (((22 \times 222 + 2) + 2) + 2)) \\
&:= 3 \times 3333 - ((3 + 3)^3 + 3/3) \\
&:= (4 + 4)/4 + (4 \times (((4 - 4/4) + 4)^4) + 44) \\
&:= 5 + (((((5 + 5)^{5-5/5}) + 5)/5) + (5/5 + 5)^5) \\
&:= (66 + 6/6) \times (((666 - 6)/6) + 6 \times 6) \\
&:= 7 + ((777/7 \times (77/7 + 77)) + 7) \\
&:= (88/8 \times (888 + ((8 + 8)/8))) - 8 \\
&:= 99 \times 99 - (9/9 + 9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9783 &:= 1 + (1 + (1 + (11111 - 11^{1+1+1}))) \\
&:= 22/2 + (2 \times (22 \times 222 + 2)) \\
&:= 3 \times ((3 \times (33 \times 33 - 3)) + 3) \\
&:= 4 + (44/4 \times (((4 + 4) \times 444 + 4)/4)) \\
&:= 5^5 + ((555 \times ((55 + 5)/5)) - ((5 + 5)/5)) \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - (666/6 + 6) \\
&:= 7 + ((7/7 + 7) \times ((77 \times 777/7 + 7)/7)) \\
&:= 8 + (((88 \times 888/8) - 8/8) + 8) \\
&:= 99 \times 99 - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9784 &:= (1 + 1)^{1+1+1} \times (1 + (1 + 11 \times 111)) \\
&:= 2 \times (22 \times 222 + 2 \times (2 + 2)) \\
&:= 3/3 + (3 \times ((3 \times (33 \times 33 - 3)) + 3)) \\
&:= 4 + (4 \times (((4 - 4/4) + 4)^4) + 44) \\
&:= 5^5 + ((555 \times ((55 + 5)/5)) - 5/5) \\
&:= (((66 - 6)/6)^{6-(6+6)/6}) - 6 \times 6 \times 6 \\
&:= 7 + (((7 + 7)/7)^7 \times (77 - 7/7)) + 7 \times 7 \\
&:= 8 + ((88 \times 888/8) + 8) \\
&:= 9/9 + (99 \times 99 - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9785 &:= 1 + ((1 + 1)^{1+1+1} \times (1 + (1 + 11 \times 111))) \\
&:= (((22/2)^2 - 22)^2) - 2^{2+2} \\
&:= 33/3 + (3 \times (3 \times (33 \times 33 - 3))) \\
&:= 4 + ((4 \times (((4 - 4/4) + 4)^4) + 44)) + 4/4 \\
&:= 5^5 + (555 \times ((55 + 5)/5)) \\
&:= 6666 + (((6 - 6/6)^{6-6/6}) - 6) \\
&:= 7 + (((77 \times (77 + 7 \times 7)) - 7/7) + 77) \\
&:= 8 + (((88 \times 888/8) + 8/8) + 8) \\
&:= (9 + 9)/9 + (99 \times 99 - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9786 &:= (((1 + 1 + 1)^{11-1-1}) - 111)/(1 + 1) \\
&:= 22 + (2 \times (22 \times 222 - 2)) \\
&:= 3 + (3 \times ((3 \times (33 \times 33 - 3)) + 3)) \\
&:= ((44/(4 + 4)/4) \times (444 + 4/4)) - 4 \\
&:= 5^5 + ((555 \times ((55 + 5)/5)) + 5/5) \\
&:= 66 + (6 \times 6 \times (666 - 6 \times 66)) \\
&:= 7 + ((77 \times (77 + 7 \times 7)) + 77) \\
&:= 8 + (((88 \times 888/8) + ((8 + 8)/8)) + 8) \\
&:= 99 \times 99 + (((9 + 9 + 9)/9) - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9787 &:= 1 + (((1 + 1 + 1)^{11-1-1}) - 111)/(1 + 1) \\
&:= 2 + (((22/2)^2 - 22)^2) - 2^{2+2} \\
&:= (3 \times (3 \times 33 \times 33)) - (33/3 + 3) \\
&:= 44 + (((44 - 4)/4)^4 - (4/4 + 4^4)) \\
&:= 5^5 + ((555 \times ((55 + 5)/5)) + ((5 + 5)/5)) \\
&:= 66 + ((6 \times 6 \times (666 - 6 \times 66)) + 6/6) \\
&:= ((7 \times (7 + 7) + 7/7)^{(7+7)/7}) - (7 + 7) \\
&:= 8 + (88/8 \times (888 + 8/8)) \\
&:= 99 \times 99 + (((9 - 99)/(9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9788 &:= ((11 \times (11 - 1 - 1))^{1+1}) - 1 - 1 - 11 \\
&:= 22 + ((2 \times 22 \times 222) - 2) \\
&:= (3 \times ((3 \times 33 \times 33) - 3)) - (3/3 + 3) \\
&:= 44 + (((44 - 4)/4)^4 - 4^4) \\
&:= (5 - 5/5) \times (((((5 - 5^5) + 5)/5) - 55) + 5^5) \\
&:= 6 + ((66 + 6/6) \times (((666 - 6)/6) + 6 \times 6)) \\
&:= ((7 + 7) \times (777 - 77)) - (77 + 7)/7 \\
&:= 8 + ((88/8 \times (888 + 8/8)) + 8/8) \\
&:= 99 \times 99 - (99 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9789 &:= ((11 \times (11 - 1 - 1))^{1+1}) - 1 - 11 \\
&:= 22 + ((2 \times 22 \times 222) - 2/2) \\
&:= (3 \times ((3 \times 33 \times 33) - 3)) - 3 \\
&:= ((4/4 - 4^4) + 4) \times ((4/4 - 44) + 4) \\
&:= (55 \times (5 \times 5 \times 5 + 55)) - 555/5 \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - 666/6 \\
&:= ((7 + 7) \times (777 - 77)) - 77/7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 88) + 8)) - (88/8)) \\
&:= 99 \times 99 - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9790 &:= ((11 \times (11 - 1 - 1))^{1+1}) - 11 \\
&:= 22 + (2 \times 22 \times 222) \\
&:= 33/3 \times ((33 \times 3^3) - 3/3) \\
&:= (44/((4 + 4)/4)) \times (444 + 4/4) \\
&:= 5 + ((555 \times ((55 + 5)/5)) + 5^5) \\
&:= 6 + (((66 - 6)/6)^{6-(6+6)/6}) - 6 \times 6 \times 6 \\
&:= 77 + ((77 \times (77 + 7 \times 7)) + (77/7)) \\
&:= 88/8 \times (888 + ((8 + 8)/8)) \\
&:= 99 \times 99 - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9791 &:= 1 + (((11 \times (11 - 1 - 1))^{1+1}) - 11) \\
&:= 22 + ((2 \times 22 \times 222) + 2/2) \\
&:= (3 \times ((3 \times 33 \times 33) - 3)) - 3/3 \\
&:= ((4 \times (4 + 4) + 4) \times (4 \times 4 + 4^4)) - 4/4 \\
&:= 5^5 + ((5/5 + 5) \times 5555/5) \\
&:= 6666 + ((6 - 6/6)^{6-6/6}) \\
&:= ((7 + 7) \times (777 - 77)) - ((7 + 7)/7 + 7) \\
&:= (8 \times (8 \times (8 \times 8 + 88) + 8)) - 8/8 \\
&:= 99 \times 99 - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9792 &:= 1 + (1 + (((11 \times (11 - 1 - 1))^{1+1}) - 11)) \\
&:= 2 + ((2 \times 22 \times 222) + 22) \\
&:= 3 \times ((3 \times 33 \times 33) - 3) \\
&:= (4 \times (4 + 4) + 4) \times (4 \times 4 + 4^4) \\
&:= (55/5 + 5) \times (((5^5 - (55 + 5 + 5))/5) \\
&:= (6 + 6) \times ((6 + 6) \times ((6 + 6)/6 + 66)) \\
&:= ((7 + 7) \times (777 - 77)) - (7/7 + 7) \\
&:= 8 \times (8 \times (8 \times 8 + 88) + 8) \\
&:= 99 \times 99 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9793 &:= 1 + (1 + (1 + ((11 \times (11 - 1 - 1))^{1+1}) - 11))) \\
&:= (((22/2)^2 - 22)^2) - 2 \times (2 + 2) \\
&:= 3/3 + (3 \times ((3 \times 33 \times 33) - 3)) \\
&:= 4/4 + ((4 \times (4 + 4) + 4) \times (4 \times 4 + 4^4)) \\
&:= ((5 + 5)/5 + 5) \times (5 \times (5 \times 55 + 5) - 5/5) \\
&:= 6/6 + ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6 + 66))) \\
&:= ((7 + 7) \times (777 - 77)) - 7 \\
&:= 8/8 + (8 \times (8 \times (8 \times 8 + 88) + 8)) \\
&:= 9/9 + (99 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9798 &:= ((11 \times (11 - 1 - 1))^{1+1}) - 1 - 1 - 1 \\
&:= (2 \times (((2 \times (22 + 2)) + 22)^2)) - 2 \\
&:= (3 \times (3 \times 33 \times 33)) - 3 \\
&:= (4 + 4)/4 + (4^4 \times (44 - 4) - 444) \\
&:= (((5 \times 5 + 5) + 5) \times (5 \times 55 + 5) - (5 + 5)/5) \\
&:= 6 + ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6 + 66))) \\
&:= ((7 + 7) \times (777 - 77)) - (7 + 7)/7 \\
&:= 8 + (88/8 \times (888 + ((8 + 8)/8))) \\
&:= 99 \times 99 - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9803 &:= 1 + (1 + ((11 \times (11 - 1 - 1))^{1+1})) \\
&:= 2 + (((22/2)^2 - 22)^2) \\
&:= 3 + ((3 \times (3 \times 33 \times 33)) - 3/3) \\
&:= 4 + (((44 - 4) \times (4^4 - 44/4)) - 4/4) \\
&:= ((55/5 + 5) \times ((5^5 - (55 + 5))/5)) - 5 \\
&:= 6 + (((6 - 6/6)^{6-6/6}) + 6666) + 6 \\
&:= (7 + 7)/7 + ((7 \times (7 + 7) + 7/7)^{(7+7)/7}) \\
&:= 88/8 + (8 \times (8 \times (8 \times 8 + 88) + 8)) \\
&:= (9 + 9)/9 + 99 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9794 &:= 1 + (1 + (1 + (1 + ((11 \times (11 - 1 - 1))^{1+1}) - 11)))) \\
&:= 22 + (2 \times (22 \times 222 + 2)) \\
&:= 3 + ((3 \times ((3 \times 33 \times 33) - 3)) - 3/3) \\
&:= 4 + ((44/((4 + 4)/4)) \times (444 + 4/4)) \\
&:= (55 - 5/5 + 5) \times (555/5 + 55) \\
&:= (6 + 6)/6 + ((6 + 6) \times ((6 + 6) \times ((6 + 6)/6 + 66))) \\
&:= ((7 \times (7 + 7) + 7/7)^{(7+7)/7}) - 7 \\
&:= (8 + 8)/8 + (8 \times (8 \times (8 \times 8 + 88) + 8)) \\
&:= (9 + 9)/9 + (99 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9799 &:= ((11 \times (11 - 1 - 1))^{1+1}) - 1 - 1 \\
&:= (((22/2)^2 - 22)^2) - 2 \\
&:= 3/3 + ((3 \times (3 \times 33 \times 33)) - 3) \\
&:= ((44 - 4) \times (4^4 - 44/4)) - 4/4 \\
&:= (((5 \times 5 + 5) + 5) \times (5 \times 55 + 5) - 5/5) \\
&:= 6 + (((6 + 6) \times ((6 + 6) \times ((6 + 6)/6 + 66))) + 6/6) \\
&:= ((7 + 7) \times (777 - 77)) - 7/7 \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 88) + 8)) - 8/8) \\
&:= 99 \times 99 - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9804 &:= 1 + (1 + (1 + ((11 \times (11 - 1 - 1))^{1+1}))) \\
&:= 2 \times (((2 \times (22 + 2)) + 22)^2) + 2 \\
&:= 3 + (3 \times (3 \times 33 \times 33)) \\
&:= 4 + ((44 - 4) \times (4^4 - 44/4)) \\
&:= 5 + (((5 \times 5 + 5) + 5) \times (5 \times 55 + 5) - 5/5) \\
&:= ((6 + 6)/6 + 6 \times 6) \times (6 \times (6 \times 6 + 6) + 6) \\
&:= (77 - 7/7) \times (((7 + 7)/7)^7 + 7/7) \\
&:= ((88 + 8)/8) + (8 \times (8 \times (8 \times 8 + 88) + 8)) \\
&:= 99 \times 99 + ((9 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9795 &:= ((11 \times (11 - 1 - 1))^{1+1}) - ((1 + 1) \times (1 + 1 + 1)) \\
&:= (((22/2)^2 - 22)^2) - 2 - 2 - 2 \\
&:= 3 + (3 \times ((3 \times 33 \times 33) - 3)) \\
&:= 4^4 \times (44 - 4) - (444 + 4/4) \\
&:= (((5 \times 5 + 5) + 5) \times (5 \times 55 + 5) - 5) \\
&:= ((666/6 - (6 + 6))^{(6+6)/6}) - 6 \\
&:= 7/7 + (((7 \times (7 + 7) + 7/7)^{(7+7)/7}) - 7) \\
&:= 8 + ((88/8 \times (888 + 8/8)) + 8) \\
&:= 99 \times 99 + (((9 + 9 + 9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9800 &:= ((11 \times (11 - 1 - 1))^{1+1}) - 1 \\
&:= 2 \times (((2 \times (22 + 2)) + 22)^2) \\
&:= (3 \times (3 \times 33 \times 33)) - 3/3 \\
&:= (44 - 4) \times (4^4 - 44/4) \\
&:= ((5 \times 5 + 5) + 5) \times (5 \times 55 + 5) \\
&:= ((6 + 6)/6) \times (((6 + 6)/6)^6 + 6)^{(6+6)/6} \\
&:= (7 + 7) \times (777 - 77) \\
&:= 8 + (8 \times (8 \times (8 \times 8 + 88) + 8)) \\
&:= 99 \times 99 - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9805 &:= 1 + (1 + (1 + (1 + ((11 \times (11 - 1 - 1))^{1+1})))) \\
&:= 2 + (((22/2)^2 - 22)^2) + 2 \\
&:= 3 + ((3 \times (3 \times 33 \times 33)) + 3/3) \\
&:= 4 + (((44 - 4) \times (4^4 - 44/4)) + 4/4) \\
&:= 5 + (((5 \times 5 + 5) + 5) \times (5 \times 55 + 5)) \\
&:= 6/6 + (((6 + 6)/6 + 6 \times 6) \times (6 \times (6 \times 6 + 6) + 6)) \\
&:= 77 + (((7 + 7)/7)^7 \times (77 - 7/7)) \\
&:= 88 + ((8 \times 8 \times (8 \times 8 + 88)) - (88/8)) \\
&:= 99 \times 99 + ((9 \times 9 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9796 &:= ((11 \times (11 - 1 - 1))^{1+1}) - 1 - 1 - 1 - 1 - 1 \\
&:= 2 \times (((2 \times (22 + 2)) + 22)^2) - 2 \\
&:= 3 + ((3 \times ((3 \times 33 \times 33) - 3)) + 3/3) \\
&:= 4^4 \times (44 - 4) - 444 \\
&:= ((5 \times (5 \times 5 - 5) - 5/5)^{(5+5)/5}) - 5 \\
&:= 6/6 + (((666/6 - (6 + 6))^{(6+6)/6}) - 6) \\
&:= 7 + (((7 + 7) \times (777 - 77)) - (77/7)) \\
&:= 8 \times 8/(8 + 8) + (8 \times (8 \times (8 \times 8 + 88) + 8)) \\
&:= 99 \times 99 + ((9 - 99)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9801 &:= (11 \times (11 - 1 - 1))^{1+1} \\
&:= ((22/2)^2 - 22)^2 \\
&:= 3 \times (3 \times 33 \times 33) \\
&:= 4/4 + ((44 - 4) \times (4^4 - 44/4)) \\
&:= (5 \times (5 \times 5 - 5) - 5/5)^{(5+5)/5} \\
&:= (666/6 - (6 + 6))^{(6+6)/6} \\
&:= (7 \times (7 + 7) + 7/7)^{(7+7)/7} \\
&:= (88/8 + 88)^{(8+8)/8} \\
&:= 99 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9806 &:= 1 + (1 + (1 + (1 + (1 + ((11 \times (11 - 1 - 1))^{1+1})))))) \\
&:= 2 + (2 \times (((2 \times (22 + 2)) + 22)^2) + 2)) \\
&:= 3 + (((3 \times (3 \times 33 \times 33)) - 3/3) + 3) \\
&:= 4 + (((44 - 4) \times (4^4 - 44/4)) + (4 + 4)/4) \\
&:= 5 + (((5 \times (5 \times 5 - 5) - 5/5)^{(5+5)/5}) \\
&:= 6 + (((6 + 6)/6) \times (((6 + 6)/6)^6 + 6)^{(6+6)/6}) \\
&:= 7 + (((7 + 7) \times (777 - 77)) - 7/7) \\
&:= 8 + ((88/8 \times (888 + ((8 + 8)/8))) + 8) \\
&:= 99 \times 99 + ((9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9797 &:= ((11 \times (11 - 1 - 1))^{1+1}) - 1 - 1 - 1 - 1 \\
&:= (((22/2)^2 - 22)^2) - 2 - 2 \\
&:= (3 \times (3 \times 33 \times 33)) - (3/3 + 3) \\
&:= 4/4 + (4^4 \times (44 - 4) - 444) \\
&:= 5^5 + ((5/5 + 5) \times (5555 + 5)/5) \\
&:= 6 + (((6 - 6/6)^{6-6/6}) + 6666) \\
&:= 77 + ((77/7 + 7) \times (7 \times 77 + 7/7)) \\
&:= 88 + ((88/8 + 8) \times (8 \times 8 \times 8 - 8/8)) \\
&:= 99 \times 99 + ((9 - 9 \times 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9802 &:= 1 + ((11 \times (11 - 1 - 1))^{1+1}) \\
&:= 2 + (2 \times (((2 \times (22 + 2)) + 22)^2)) \\
&:= 3/3 + (3 \times (3 \times 33 \times 33)) \\
&:= (4 + 4)/4 + ((44 - 4) \times (4^4 - 44/4)) \\
&:= 5/5 + (((5 \times (5 \times 5 - 5) - 5/5)^{(5+5)/5}) \\
&:= 6/6 + (((666/6 - (6 + 6))^{(6+6)/6}) \\
&:= 7/7 + (((7 \times (7 + 7) + 7/7)^{(7+7)/7}) \\
&:= 8/8 + ((88/8 + 88)^{(8+8)/8}) \\
&:= 9/9 + 99 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9807 &:= (1 + 1 + 1) \times ((1 + 1)^{11} + 11 \times 111) \\
&:= 2 + (((22/2)^2 - 22)^2) + 2 + 2 \\
&:= 3 + ((3 \times (3 \times 33 \times 33)) + 3) \\
&:= 44/4 + (4^4 \times (44 - 4) - 444) \\
&:= ((5 + 5)/5 + 5) \times (5 \times (5 \times 55 + 5) + 5/5) \\
&:= 6 + (((666/6 - (6 + 6))^{(6+6)/6}) \\
&:= 7 + ((7 + 7) \times (777 - 77)) \\
&:= (8 - 8/8) \times ((88 \times (8 + 8) - 8) + 8/8) \\
&:= 9 + (99 \times 99 - ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9808 &:= 1 + ((1 + 1 + 1) \times ((1 + 1)^{11} + 11 \times 111)) \\
&:= 2 \times ((22 \times 222 - 2) + 22) \\
&:= 3 + (((3 \times (3 \times 33 \times 33)) + 3/3) + 3) \\
&:= 4 \times (4 \times (((4/4 + 4)^4 - 4 \times 4) + 4)) \\
&:= (55/5 + 5) \times ((5^5 - (55 + 5))/5) \\
&:= 6 + (((666/6 - (6 + 6))^{(6+6)/6}) + 6/6) \\
&:= 7 + ((7 \times (7 + 7) + 7/7)^{(7+7)/7}) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 88) + 8)) + 8) \\
&:= 9 + (99 \times 99 - (9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9809 &:= 11 + (((11 \times (11 - 1 - 1))^{1+1}) - (1 + 1 + 1)) \\
&:= 2 \times (2 + 2) + (((22/2)^2 - 22)^2) \\
&:= (3 \times ((3 \times 33 \times 33) + 3)) - 3/3 \\
&:= 4/4 + (4 \times (4 \times (((4/4 + 4)^4 - 4 \times 4) + 4))) \\
&:= 5 + (((((5 \times 5 + 5) + 5) \times (5 \times 55 + 5)) - 5/5) + 5) \\
&:= 66666/6 - (6 \times 6 \times 6 \times 6 + 6) \\
&:= 7 + (((7 \times (7 + 7) + 7/7)^{(7+7)/7}) + 7/7) \\
&:= 8 + ((88/8 + 88)^{(8+8)/8}) \\
&:= 9 + (99 \times 99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9810 &:= 11 + (((11 \times (11 - 1 - 1))^{1+1}) - (1 + 1)) \\
&:= (22 \times (2 \times 222 + 2)) - 2 \\
&:= 3 \times ((3 \times 33 \times 33) + 3) \\
&:= (44 - 4)/4 \times ((4 \times 4^4 - 44) + 4/4) \\
&:= 5 + (((5 \times 5 + 5) + 5) \times (5 \times 55 + 5)) + 5 \\
&:= (6 - 6 \times 6) \times (6 - 666 \times 6/(6 + 6)) \\
&:= (77/7 + 7) \times ((7 \times 77 - 7/7) + 7) \\
&:= 8 + (((88/8 + 88)^{(8+8)/8}) + 8/8) \\
&:= 9 + 99 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9811 &:= 11 + (((11 \times (11 - 1 - 1))^{1+1}) - 1) \\
&:= (22 \times (2 \times 222 + 2)) - 2/2 \\
&:= 3/3 + (3 \times ((3 \times 33 \times 33) + 3)) \\
&:= 44/4 + ((44 - 4) \times (4^4 - 44/4)) \\
&:= 5 + (((5 \times (5 \times 5 - 5) - 5/5)^{(5+5)/5}) + 5) \\
&:= 6/6 + ((6 - 6 \times 6) \times (6 - 666 \times 6/(6 + 6))) \\
&:= 77/7 + ((7 + 7) \times (777 - 77)) \\
&:= 8 + ((8 \times (8 \times (8 \times 8 + 88) + 8)) + (88/8)) \\
&:= 9 + (99 \times 99 + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9812 &:= 11 + ((11 \times (11 - 1 - 1))^{1+1}) \\
&:= 22 \times (2 \times 222 + 2) \\
&:= 33/3 + (3 \times (3 \times 33 \times 33)) \\
&:= 44 \times ((44/4 - 44) + 4^4) \\
&:= 5 + (((5 + 5)/5 + 5) \times (5 \times (5 \times 55 + 5) + 5/5)) \\
&:= 66/6 + (((666/6 - (6 + 6))^{(6+6)/6}) \\
&:= 7 + (((7 + 7)/7)^7 \times (77 - 7/7)) + 77) \\
&:= 88/8 \times (8 \times 8/(8 + 8) + 888) \\
&:= 99/9 + 99 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9813 &:= 1 + (11 + ((11 \times (11 - 1 - 1))^{1+1})) \\
&:= 2/2 + (22 \times (2 \times 222 + 2)) \\
&:= 3 + (3 \times ((3 \times 33 \times 33) + 3)) \\
&:= 4/4 + (44 \times ((44/4 - 44) + 4^4)) \\
&:= 5 + ((55/5 + 5) \times ((5^5 - (55 + 5))/5)) \\
&:= 6 + (((666/6 - (6 + 6))^{(6+6)/6}) + 6) \\
&:= 777/7 + (77 \times (77 + 7 \times 7)) \\
&:= 8 \times 8 + ((88/8 \times (888 - 8/8)) - 8) \\
&:= 99 \times 99 + (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9814 &:= 1 + (1 + (11 + ((11 \times (11 - 1 - 1))^{1+1}))) \\
&:= 2 + (22 \times (2 \times 222 + 2)) \\
&:= 3 + ((3 \times ((3 \times 33 \times 33) + 3)) + 3/3) \\
&:= 4 + ((44 - 4)/4 \times ((4 \times 4^4 - 44) + 4/4)) \\
&:= ((55/5 + 5) \times ((5^5 - 55)/5)) - 5 - 5 \\
&:= ((6 + 6)/6) \times (((66/6 + 6)^{6 \times 6/(6+6)}) - 6) \\
&:= 7 + (((7 + 7) \times (777 - 77)) + 7) \\
&:= 88 + ((8 \times 8 \times (8 \times 8 + 88)) - (8 + 8)/8) \\
&:= 99 \times 99 + ((99 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9815 &:= 1 + (1 + (1 + (11 + ((11 \times (11 - 1 - 1))^{1+1})))) \\
&:= 2 + ((22 \times (2 \times 222 + 2)) + 2/2) \\
&:= 3 + ((3 \times (3 \times 33 \times 33)) + 33/3) \\
&:= (4^4 + 4)/4 \times ((444/4 - 4) + 44) \\
&:= (55 + 5 + 5) \times (5 \times (5 \times 5 + 5) + 5/5) \\
&:= 66666/6 - 6 \times 6 \times 6 \times 6 \\
&:= 7 + (((7 \times (7 + 7) + 7/7)^{(7+7)/7}) + 7) \\
&:= 88 + ((8 \times 8 \times (8 \times 8 + 88)) - 8/8) \\
&:= 9 + (((9 \times 9 + 9)/(9 + 9)) + 99 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9816 &:= (1 + 1) \times ((1 + 1) \times (1 + (11 \times (1 + (1 + 1) \times 111)))) \\
&:= 2 + ((22 \times (2 \times 222 + 2)) + 2) \\
&:= 3 + ((3 \times ((3 \times 33 \times 33) + 3)) + 3) \\
&:= 4 + (44 \times ((44/4 - 44) + 4^4)) \\
&:= 5 + (((5 \times (5 \times 5 - 5) - 5/5)^{(5+5)/5}) + 5) + 5 \\
&:= 6 + ((6 - 6 \times 6) \times (6 - 666 \times 6/(6 + 6))) \\
&:= 7 + (((7 \times (7 + 7) + 7/7)^{(7+7)/7}) + 7/7) + 7) \\
&:= 88 + (8 \times 8 \times (8 \times 8 + 88)) \\
&:= 9 + ((99 \times 99 - ((9 + 9 + 9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9817 &:= 1 + ((1 + 1) \times ((1 + 1) \times (1 + (11 \times (1 + (1 + 1) \times 111)))) \\
&:= 2^{2+2} + (((22/2)^2 - 22)^2) \\
&:= (3 \times (3 \times (33 \times 33 + 3))) - 33/3 \\
&:= ((4^4 - 4) \times (44 - (4/4 + 4))) - 44/4 \\
&:= 5 + (((5 + 5)/5 + 5) \times (5 \times (5 \times 55 + 5) + 5/5)) + 5 \\
&:= (6666/6) + (66 \times (66 + 66) - 6) \\
&:= 7 + ((77/7 + 7) \times ((7 \times 77 - 7/7) + 7)) \\
&:= 8 + (((88/8 + 88)^{(8+8)/8}) + 8) \\
&:= 9 + ((99 \times 99 - ((9 + 9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9818 &:= 11 + ((1 + 1 + 1) \times ((1 + 1)^{11} + 11 \times 111)) \\
&:= 2 + (((22 \times (2 \times 222 + 2)) + 2) + 2) \\
&:= (3 \times (((3 \times 33 \times 33) + 3) + 3)) - 3/3 \\
&:= (4 + 4)/4 \times (((4 \times 4 + 4/4)^{4-4/4}) - 4) \\
&:= 5 + (((55/5 + 5) \times ((5^5 - (55 + 5))/5)) + 5) \\
&:= (6^{6-6/6}) + (((6 + 6)/6)^{66/6}) - 6) \\
&:= 7 + (((7 + 7) \times (777 - 77)) + (77/7)) \\
&:= 88 + ((8 \times 8 \times (8 \times 8 + 88)) + ((8 + 8)/8)) \\
&:= 9 + ((99 \times 99 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9819 &:= (11 - 1 - 1) \times (1 + (1 + (11 \times (1 + 1 + 1))^{1+1})) \\
&:= 2 + (((22/2)^2 - 22)^2) + 2^{2+2}) \\
&:= 3 \times (((3 \times 33 \times 33) + 3) + 3) \\
&:= 444 + ((44/4 + 4) \times (4/4 + 4)^4) \\
&:= ((55/5 + 5) \times ((5^5 - 55)/5)) - 5 \\
&:= 6 + (((666/6 - (6 + 6))^{(6+6)/6}) + 6) + 6) \\
&:= (7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - ((7 + 7)/7)^7 \\
&:= 8 + (((8 \times (8 \times (8 \times 8 + 88) + 8)) + (88/8)) + 8) \\
&:= 9 + (99 \times 99 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9820 &:= (11 - 1) \times (1 + ((11 - 1 - 1) \times (111 - 1 - 1))) \\
&:= 2 \times (((22 \times 222 + 22) + 2) + 2) \\
&:= 3/3 + (3 \times ((3 \times 33 \times 33) + 3) + 3)) \\
&:= ((44 - 4)/4)^4 - (4 \times 44 + 4) \\
&:= 5^5 + ((5 \times 5 \times (5 \times 55 - 5)) - 55) \\
&:= (6 \times (6 - 6 \times 6)) + (((66 - 6)/6)^{6-(6+6)/6}) \\
&:= 7 + ((77 \times (77 + 7 \times 7)) + 777/7) \\
&:= 8 + (88/8 \times (8 \times 8/(8 + 8) + 888)) \\
&:= 9 + ((99 \times 99 + 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9821 &:= ((1 + 1) \times (11 - 1)) + ((11 \times (11 - 1 - 1))^{1+1}) \\
&:= 22 + (((22/2)^2 - 22)^2) - 2) \\
&:= 33/3 + (3 \times ((3 \times 33 \times 33) + 3)) \\
&:= 4/4 + (((44 - 4)/4)^4 - (4 \times 44 + 4)) \\
&:= 5^5 + ((5/5 + 5) \times (5555/5 + 5)) \\
&:= 6 + (66666/6 - 6 \times 6 \times 6 \times 6) \\
&:= ((77 + 7 \times 7) \times (7/7 + 77)) - 7 \\
&:= 8 \times 8 + (88/8 \times (888 - 8/8)) \\
&:= 9 + (99 \times 99 + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9822 &:= 11 + (11 + (((11 \times (11 - 1 - 1))^{1+1}) - 1)) \\
&:= 2 \times (((2^{2+2} + 2/2)^{2/2+2}) - 2) \\
&:= 3 + (3 \times (((3 \times 33 \times 33) + 3) + 3)) \\
&:= ((44 - 4)/4)^4 - (4 \times 44 + (4 + 4)/4) \\
&:= 5^5 + ((5/5 + 5)^5 - ((5 - 5/5)^5 + 55)) \\
&:= ((6 \times 6 + 6) \times ((6 \times 6 \times 6 + 6) + 6)) - 6 \\
&:= 7 + (((7 \times (7 + 7) + 7/7)^{(7+7)/7}) + 7) + 7) \\
&:= 8 + (((8 \times 8 \times (8 \times 8 + 88)) - ((8 + 8)/8)) + 88) \\
&:= 9 + (99 \times 99 + (99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9823 &:= 11 + (11 + ((11 \times (11 - 1 - 1))^{1+1})) \\
&:= 22 + (((22/2)^2 - 22)^2) \\
&:= 33/3 \times ((33 \times 3^3) - 3/3) + 3 \\
&:= ((44 - 4)/4)^4 - (4 \times 44 + 4/4) \\
&:= ((55/5 + 5) \times ((5^5 - 55)/5)) - 5/5 \\
&:= (6666/6) + 66 \times (66 + 66) \\
&:= 77/7 \times (7 \times (77 + 7 \times 7) + (77/7)) \\
&:= 8 + (((8 \times 8 \times (8 \times 8 + 88)) - 8/8) + 88) \\
&:= 99/9 \times (((9 + 9)/9) + 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9824 &:= 1 + (11 + (11 + ((11 \times (11 - 1 - 1))^{1+1}))) \\
&:= 2 \times ((22 \times (222 + 2)) - 2^{2+2}) \\
&:= (3 \times (3 \times (33 \times 33 + 3))) - (3/3 + 3) \\
&:= 4 \times ((4 \times (4/4 + 4)^4) - 44) \\
&:= (55/5 + 5) \times ((5^5 - 55)/5) \\
&:= (6^{6-6/6}) + (((6 + 6)/6)^{66/6}) \\
&:= (7/7 + 7) \times (77/7 \times 777/7 + 7) \\
&:= 8 + ((8 \times 8 \times (8 \times 8 + 88)) + 88) \\
&:= 99 \times 99 + (99 + 99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9825 &:= ((1 + 1) \times (1 + 11)) + ((11 \times (11 - 1 - 1))^{1+1}) \\
&:= 2 + (((22/2)^2 - 22)^2 + 22) \\
&:= (3 \times (3 \times (33 \times 33 + 3))) - 3 \\
&:= 4/4 + (4 \times ((4 \times (4/4 + 4)^4) - 44)) \\
&:= (5 + 5 + 5) \times ((5^5/5 + 5 \times 5) + 5) \\
&:= 6/6 + (((6 + 6)/6)^{66/6}) + (6^{6-6/6}) \\
&:= 7777 + (((7 + 7)/7)^{77/7}) \\
&:= 8 + (((88/8 + 88)^{(8+8)/8}) + 8) + 8 \\
&:= 9 + (((99 \times 99 - (9 + 9 + 9)/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9826 &:= (1 + 1) \times ((1 + (1 + 1))^{1+1+1+1})^{1+1+1+1} \\
&:= 2 \times ((2^{2+2} + 2/2)^{2/2+2}) \\
&:= (3 - 3/3) \times (33/3 + 3 + 3)^3 \\
&:= (4 + 4)/4 \times ((4 \times 4 + 4/4)^{4-4/4}) \\
&:= 5 \times 5 + ((5 \times (5 \times 5 - 5) - 5/5)^{(5+5)/5}) \\
&:= ((6 + 6)/6) \times ((66/6 + 6)^{6 \times 6/(6+6)}) \\
&:= 7 \times (7 + 7) + (((7 + 7)/7)^7 \times (77 - 7/7)) \\
&:= ((8 + 8)/8) \times ((8/8 + 8 + 8)^{88/8-8}) \\
&:= 9 + (((99 \times 99 - (9 + 9)/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9827 &:= 1 + ((1 + 1) \times ((1 + (1 + 1))^{1+1+1+1})^{1+1+1+1}) \\
&:= 2 + (((((22/2)^2 - 22)^2) + 22) + 2) \\
&:= (3 \times (3 \times (33 \times 33 + 3))) - 3/3 \\
&:= ((4^4 - 4) \times (44 - (4/4 + 4))) - 4/4 \\
&:= ((5 \times 5 + 5/5) + 5) \times ((5^5 - 5)/(5 + 5) + 5) \\
&:= ((6 \times 6 + 6) \times ((6 \times 6 \times 6 + 6 + 6) + 6)) - 6/6 \\
&:= ((77 + 7 \times 7) \times (7/7 + 77)) - 7/7 \\
&:= 88 + ((8 \times 8 \times (8 \times 8 + 88)) + (88/8)) \\
&:= 9 + (((99 \times 99 - 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9828 &:= (1 + 1) \times (1 + ((1 + (1 + 1))^{1+1+1+1})^{1+1+1+1}) \\
&:= 2 + (2 \times ((2^{2+2} + 2/2)^{2/2+2})) \\
&:= 3 \times (3 \times (33 \times 33 + 3)) \\
&:= (4^4 - 4) \times (44 - (4/4 + 4)) \\
&:= (55/5 + 5 \times 5) \times (5 \times 55 - ((5 + 5)/5)) \\
&:= (6 \times 6 + 6) \times ((6 \times 6 \times 6 + 6 + 6) + 6) \\
&:= (77 + 7 \times 7) \times (7/7 + 77) \\
&:= (8 - 8/8) \times (88 \times (8 + 8) - 8 \times 8/(8 + 8)) \\
&:= 9 + ((99 \times 99 + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9829 &:= (((((1 + 1 + 1))^{11-1-1}) - 1)/(1 + 1)) - 1 - 11 \\
&:= 2 + ((((((22/2)^2 - 22)^2) + 22) + 2) + 2) \\
&:= 3/3 + (3 \times (3 \times (33 \times 33 + 3))) \\
&:= 4/4 + (((4^4 - 4) \times (44 - (4/4 + 4))) \\
&:= 5 + ((55/5 + 5) \times ((5^5 - 55)/5)) \\
&:= 6/6 + (((6 \times 6 + 6) \times ((6 \times 6 \times 6 + 6 + 6) + 6)) \\
&:= 7/7 + (((77 + 7 \times 7) \times (7/7 + 77)) \\
&:= 8 + ((88/8 \times (888 - 8/8)) + 8 \times 8) \\
&:= 9 + (((99 \times 99 + 9/9) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9830 &:= (((((1 + 1 + 1))^{11-1-1}) - 1)/(1 + 1)) - 11 \\
&:= 2 \times (((2^{2+2} + 2/2)^{2/2+2}) + 2) \\
&:= 3 + ((3 \times (3 \times (33 \times 33 + 3))) - 3/3) \\
&:= 4 + ((4 + 4)/4 \times ((4 \times 4 + 4/4)^{4-4/4})) \\
&:= 5 + ((5 + 5 + 5) \times ((5^5/5 + 5 \times 5) + 5)) \\
&:= 6 + (((6 + 6)/6)^{66/6}) + (6^{6-6/6}) \\
&:= ((7 + 7)/7)^7 + (77 \times (77 + 7 \times 7)) \\
&:= 8 \times 8 + ((88 \times 888/8) - ((8 + 8)/8)) \\
&:= 9 + ((99 \times 99 + (99/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9831 &:= ((1 + ((1 + 1 + 1))^{11-1-1})/(1 + 1)) - 11 \\
&:= 222/2 + ((22 - 2) \times (22^2 + 2)) \\
&:= 3 + (3 \times (3 \times (33 \times 33 + 3))) \\
&:= 4 + (((4^4 - 4) \times (44 - (4/4 + 4))) - 4/4) \\
&:= 5 + (((5 + 5 + 5) \times ((5^5/5 + 5 \times 5) + 5)) + 5/5) \\
&:= 6 \times 6 + (((666/6 - (6 + 6))^{(6+6)/6}) - 6) \\
&:= ((7 + 7 + 7)/7)^7 + ((7 + 7) \times (7 \times 77 + 7)) \\
&:= 8 \times 8 + ((88 \times 888/8) - 8/8) \\
&:= 9 + ((99 \times 99 + (99 + 9)/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9832 &:= ((111 - 1 - 1)^{1+1}) - (1 + (1 + 1))^{11} \\
&:= 2 \times (22 \times 222 + 2 \times 2^{2+2}) \\
&:= 3 + ((3 \times (3 \times (33 \times 33 + 3))) + 3/3) \\
&:= 4 + (((4^4 - 4) \times (44 - (4/4 + 4))) \\
&:= 5 + (((5 \times 5 + 5/5) + 5) \times ((5^5 - 5)/(5 + 5) + 5)) \\
&:= 6 + (((6 + 6)/6) \times ((66/6 + 6)^{6 \times 6/(6+6)})) \\
&:= 7 + (((7 + 7)/7)^{77/7}) + 7777 \\
&:= 8 \times 8 + (88 \times 888/8) \\
&:= 9 + (((99 + 99)/9) + 99 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9833 &:= (((111 - 1 - 1)^{1+1}) - (1 + 1))^{11} \\
&:= 22 + ((22 \times (2 \times 222 + 2)) - 2/2) \\
&:= 33 + ((3 \times (3 \times 33 \times 33)) - 3/3) \\
&:= 4 + (((4^4 - 4) \times (44 - (4/4 + 4))) + 4/4) \\
&:= 5 + ((55/5 + 5 \times 5) \times (5 \times 55 - ((5 + 5)/5))) \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - (66 + 6/6) \\
&:= ((7 \times 7 - 7/7) \times (((7 + 7)/7)^7 + 77)) - 7 \\
&:= 8/8 + ((88 \times 888/8) + 8 \times 8) \\
&:= 9 + ((99 + 99 + 9)/9 + 99 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9834 &:= 1 + (((111 - 1 - 1)^{1+1}) - (1 + 1))^{11} \\
&:= 22 + (22 \times (2 \times 222 + 2)) \\
&:= 33 + (3 \times (3 \times 33 \times 33)) \\
&:= (4 + 4)/4 \times (((4 \times 4 + 4/4)^{4-4/4}) + 4) \\
&:= 5 + (((55/5 + 5) \times ((5^5 - 55)/5)) + 5) \\
&:= 66 \times (((6 + 6) \times (6 + 6) - 6/6) + 6) \\
&:= 7 + (((77 + 7 \times 7) \times (7/7 + 77)) - 7/7) \\
&:= 88/8 \times ((888 - ((8 + 8)/8)) + 8) \\
&:= 99/9 \times (((9 + 9 + 9)/9) + 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9835 &:= (((((1 + 1 + 1))^{11-1-1}) - 11)/(1 + 1)) - 11 \\
&:= 22 + ((22 \times (2 \times 222 + 2)) + 2/2) \\
&:= 3/3 + ((3 \times (3 \times 33 \times 33)) + 33) \\
&:= 44/4 + (4 \times ((4 \times (4/4 + 4)^4) - 44)) \\
&:= 5^5 + (55 \times ((555 + 55)/5)) \\
&:= 6/6 + (66 \times (((6 + 6) \times (6 + 6) - 6/6) + 6)) \\
&:= 7 + (((77 + 7 \times 7) \times (7/7 + 77)) \\
&:= 8 \times 8 + ((88/8 \times (888 + 8/8)) - 8) \\
&:= 9999 - (((9 + 9)/9) + 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9836 &:= (((1 + 1 + 1))^{11-1-1}) - 11/(1 + 1) \\
&:= 2 + ((22 \times (2 \times 222 + 2)) + 22) \\
&:= (3 \times ((3 \times (33 \times 33 + 3)) + 3)) - 3/3 \\
&:= 4 + (((4^4 - 4) \times (44 - (4/4 + 4))) + 4) \\
&:= 5^5 + ((55 \times ((555 + 55)/5)) + 5/5) \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - ((6 + 6)/6)^6 \\
&:= 7 + (((77 + 7 \times 7) \times (7/7 + 77)) + 7/7) \\
&:= 8 + ((8 - 8/8) \times (88 \times (8 + 8) - 8 \times 8/(8 + 8))) \\
&:= 9999 - (9 \times (9 + 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9837 &:= 1 + (((1 + 1 + 1))^{11-1-1}) - 11/(1 + 1) \\
&:= (2 + 2 + 2)^2 + (((22/2)^2 - 22)^2) \\
&:= 3 \times ((3 \times (33 \times 33 + 3)) + 3) \\
&:= (4/4 + 4)^4 + ((4^4 \times (4 \times (4 + 4) + 4)) - 4) \\
&:= 5 + (((5 \times 5 + 5/5) + 5) \times ((5^5 - 5)/(5 + 5) + 5)) + 5 \\
&:= 6 \times 6 + ((666/6 - (6 + 6))^{(6+6)/6}) \\
&:= 7 + (((77 \times (77 + 7 \times 7)) + ((7 + 7)/7)^7) \\
&:= (88/8 \times (888 - 8/8 + 8)) - 8 \\
&:= 9999 - 9 \times (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9838 &:= 1 + (1 + (((1 + 1 + 1)^{11-1-1}) - 11)/(1 + 1))) \\
&:= (2 \times ((22 \times (222 + 2)) + 2)) - 22 \\
&:= 3/3 + (3 \times ((3 \times (33 \times 33 + 3)) + 3)) \\
&:= 4 + ((4 + 4)/4 \times (((4 \times 4 + 4/4)^{4-4/4}) + 4)) \\
&:= (5 + 5)/5 \times (5555 - ((55 + 5^5)/5)) \\
&:= ((6 + 6)/6) \times (((66/6 + 6)^{6 \times 6/(6+6)}) + 6) \\
&:= (77 \times ((7 + 7)/7)^7) - (77/7 + 7) \\
&:= ((8 + 8)/8) \times (88 \times (8 \times 8 - 8) - (8/8 + 8)) \\
&:= 9/9 + (9999 - 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9839 &:= (((1 + 1 + 1)^{11-1-1}) - 1)/(1 + 1) - 1 - 1 \\
&:= ((22 - 2) \times (2 \times (2 + 2) + 22^2)) - 2/2 \\
&:= 33/3 + (3 \times (3 \times (33 \times 33 + 3))) \\
&:= 44/4 + ((4^4 - 4) \times (44 - (4/4 + 4))) \\
&:= ((55/5 + 5) \times (5^5/5 - (5 + 5))) - 5/5 \\
&:= 6 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) - (66 + 6/6)) \\
&:= 77/7 + ((77 + 7 \times 7) \times (7/7 + 77)) \\
&:= 888/8 + (8 \times 8 \times (8 \times 8 + 88)) \\
&:= 9 + (((99 \times 99 + (99/9)) + 9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9840 &:= (((1 + 1 + 1)^{11-1-1}) - 1)/(1 + 1) - 1 \\
&:= (22 - 2) \times (2 \times (2 + 2) + 22^2) \\
&:= 3 + (3 \times ((3 \times (33 \times 33 + 3)) + 3)) \\
&:= 4 \times (((4 \times (4/4 + 4)^4) - 44) + 4) \\
&:= (55/5 + 5) \times (5^5/5 - (5 + 5)) \\
&:= 6 + (66 \times (((6 + 6) \times (6 + 6) - 6/6) + 6)) \\
&:= (7 \times 7 - 7/7) \times (((7 + 7)/7)^7 + 77) \\
&:= 8 + ((88 \times 888/8) + 8 \times 8) \\
&:= (9/9 + 9 \times 9) \times (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9841 &:= (((1 + 1 + 1)^{11-1-1}) - 1)/(1 + 1) \\
&:= 2/2 + ((22 - 2) \times (2 \times (2 + 2) + 22^2)) \\
&:= 3 + ((3 \times ((3 \times (33 \times 33 + 3)) + 3)) + 3/3) \\
&:= (4/4 + 4)^4 + (4^4 \times (4 \times (4 + 4) + 4)) \\
&:= 5/5 + ((55/5 + 5) \times (5^5/5 - (5 + 5))) \\
&:= 6 + ((66 \times (((6 + 6) \times (6 + 6) - 6/6) + 6)) + 6/6) \\
&:= (77 \times ((7 + 7)/7)^7) - (7/7 + 7 + 7) \\
&:= ((8 - 8/8) \times (88 \times (8 + 8) - 8/8)) - 8 \\
&:= 99 \times 99 + ((9 \times 9 \times 9 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9842 &:= (1 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1) \\
&:= 2 + ((22 - 2) \times (2 \times (2 + 2) + 22^2)) \\
&:= 3 + ((3 \times (3 \times (33 \times 33 + 3))) + 33/3) \\
&:= ((44 - 4)/4 + 4) \times 4 \times 4 \times 44 - 4/4 \\
&:= (5 + 5)/5 + ((55/5 + 5) \times (5^5/5 - (5 + 5))) \\
&:= 6 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) - ((6 + 6)/6)^6) \\
&:= (77 \times ((7 + 7)/7)^7) - (7 + 7) \\
&:= (8 - 8/8) \times (88 \times (8 + 8) - ((8 + 8)/8)) \\
&:= 99 \times 99 + ((9 \times 9 \times 9 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9843 &:= 1 + ((1 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1)) \\
&:= 2 \times 22 + (((22/2)^2 - 22)^2) - 2 \\
&:= 33 + (3 \times ((3 \times 33 \times 33) + 3)) \\
&:= 4^4 + ((4 \times (((4 - 4/4) + 4)^4) - 4) - 4/4) \\
&:= 5^5 + ((5 \times 5 \times (5 \times 55 - 5)) - ((5 + 5)/5)^5) \\
&:= ((66 + 6/6) \times (666/6 + 6 \times 6)) - 6 \\
&:= 7/7 + ((77 \times ((7 + 7)/7)^7) - (7 + 7)) \\
&:= 8 \times 8 + (88/8 \times (888 + 8/8)) \\
&:= 9 + ((99/(9 + 9 + 9)/9) + 99 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9844 &:= 1 + (1 + ((1 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1))) \\
&:= 2 \times (((2 \times (22 + 2)) + 22)^2) + 22 \\
&:= 3/3 + ((3 \times ((3 \times 33 \times 33) + 3)) + 33) \\
&:= 4^4 + (4 \times (((4 - 4/4) + 4)^4) - 4) \\
&:= ((5 + 5)^{5-5/5}) + ((5^5 - 5)/(5 - 5 \times 5)) \\
&:= (((66 - 6)/6) + 6 \times 6) \times (6 \times 6 \times 6 - (6 + 6)/6) \\
&:= (77 \times ((7 + 7)/7)^7) - (77 + 7)/7 \\
&:= (88 \times ((88 + 8 + 8) + 8)) - (88 + 8)/8 \\
&:= ((99/9) + 9 \times 9) \times ((99 - 9/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9845 &:= 11 \times (((1 + 111) \times (1 + 1)^{1+1+1}) - 1) \\
&:= 2 \times 22 + (((22/2)^2 - 22^2) \\
&:= 33/3 \times (((33 \times 3^3) + 3/3) + 3) \\
&:= (44 \times (4^4 - 4 \times (4 + 4))) - 44/4 \\
&:= 55 \times ((5 \times 5 \times 5 - 5/5) + 55) \\
&:= (6 - 6/6) \times (66 \times (6 \times 6 - 6) - (66/6)) \\
&:= (77 \times ((7 + 7)/7)^7) - 77/7 \\
&:= 88/8 \times (888 - 8/8 + 8) \\
&:= 9 + (9999 - (9 \times (9 + 9) + 9/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9846 &:= ((11 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1)) - 1 \\
&:= (2 \times ((22 \times (222 + 2)) - (2 + 2))) - 2 \\
&:= 3 \times (((3 \times (33 \times 33 + 3)) + 3) + 3) \\
&:= (4 - 44)/4 + (44 \times (4^4 - 4 \times (4 + 4))) \\
&:= 5/5 + (55 \times ((5 \times 5 \times 5 - 5/5) + 55)) \\
&:= 6 + ((66 \times (((6 + 6) \times (6 + 6) - 6/6) + 6)) + 6) \\
&:= ((7 - 77)/7) + (77 \times ((7 + 7)/7)^7) \\
&:= 8/8 + (88/8 \times (888 - 8/8 + 8)) \\
&:= 9 + (9999 - 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9847 &:= (11 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1) \\
&:= 2 + (((22/2)^2 - 22)^2) + 2 \times 22 \\
&:= 3/3 + (3 \times ((3 \times (33 \times 33 + 3)) + 3) + 3) \\
&:= (44 - 4/4) \times (4^4 - (44/4 + 4 \times 4)) \\
&:= (5 + 5)/5 + (55 \times ((5 \times 5 \times 5 - 5/5) + 55)) \\
&:= (6 \times 6 + 6/6 + 6) \times ((6 \times 6 \times 6 + 6/6 + 6) + 6) \\
&:= (77 \times ((7 + 7)/7)^7) - ((7 + 7)/7 + 7) \\
&:= (88 \times ((88 + 8 + 8) + 8)) - (8/8 + 8) \\
&:= 9 + ((9999 - 9 \times (9 + 9)) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9848 &:= 1 + ((11 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1)) \\
&:= 2 \times ((22 \times (222 + 2)) - (2 + 2)) \\
&:= 3 + (33/3 \times (((33 \times 3^3) + 3/3) + 3)) \\
&:= (44 \times (4^4 - 4 \times (4 + 4))) - 4 - 4 \\
&:= 5^5 + ((5 \times (5 \times (5 \times 55 - 5) - 5)) - ((5 + 5)/5)) \\
&:= ((6 + 6)/6 + 6) \times (((6 \times 6 - 6/6)^{6+6/6}) + 6) \\
&:= (77 \times ((7 + 7)/7)^7) - (7/7 + 7) \\
&:= (88 \times ((88 + 8 + 8) + 8)) - 8 \\
&:= 99/9 + (9999 - 9 \times (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9849 &:= 1 + (1 + ((11 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1))) \\
&:= 2/2 + (2 \times ((22 \times (222 + 2)) - (2 + 2))) \\
&:= (3^3 \times (333 + 33)) - 33 \\
&:= 4 + ((44 \times (4^4 - 4 \times (4 + 4))) - 44/4) \\
&:= 5 \times 5 + ((55/5 + 5) \times ((5^5 - 55)/5)) \\
&:= (66 + 6/6) \times (666/6 + 6 \times 6) \\
&:= (77 \times ((7 + 7)/7)^7) - 7 \\
&:= (8 - 8/8) \times (88 \times (8 + 8) - 8/8) \\
&:= 9 + ((9/9 + 9 \times 9) \times (999/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9850 &:= 1 + (1 + (1 + ((11 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1)))) \\
&:= (2 \times ((22 \times (222 + 2)) - 2)) - 2 \\
&:= 3/3 + ((3^3 \times (333 + 33)) - 33) \\
&:= (44 \times (4^4 - 4 \times (4 + 4))) - ((4 + 4)/4 + 4) \\
&:= 5 \times ((5 \times ((5 - 5/5)^5 - 5)) - 5^5) \\
&:= (6 \times 6 - 66/6) \times (6 \times 66 - ((6 + 6)/6)) \\
&:= 7/7 + ((77 \times ((7 + 7)/7)^7) - 7) \\
&:= 8 + ((8 - 8/8) \times (88 \times (8 + 8) - ((8 + 8)/8))) \\
&:= 99 \times 99 + ((9 \times 99 - 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9851 &:= 11 + (((1 + 1 + 1)^{11-1-1}) - 1)/(1 + 1) - 1 \\
&:= (2 \times ((22 \times (222 + 2)) - 2)) - 2/2 \\
&:= (3 \times (3 \times ((33 \times 33 + 3) + 3))) - (3/3 + 3) \\
&:= (44 \times (4^4 - 4 \times (4 + 4))) - 4/4 - 4 \\
&:= 5^5 + ((5 \times (5 \times (5 \times 55 - 5) - 5)) + 5/5) \\
&:= (6 \times (6 - 6 \times 6 \times 6)) + 66666/6 \\
&:= (7 + 7)/7 + ((77 \times ((7 + 7)/7)^7) - 7) \\
&:= 8 + ((88/8 \times (888 + 8/8)) + 8 \times 8) \\
&:= 99 \times 99 + ((9 \times 99 + 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9852 &:= 11 + (((1 + 1 + 1)^{11-1-1}) - 1)/(1 + 1) \\
&:= 2 \times ((22 \times (222 + 2)) - 2) \\
&:= (3 \times (3 \times ((33 \times 33 + 3) + 3))) - 3 \\
&:= (44 \times (4^4 - 4 \times (4 + 4))) - 4 \\
&:= 5^5 + ((5 \times (5 \times (5 \times 55 - 5) - 5)) + ((5 + 5)/5)) \\
&:= (6 + 6) \times ((66 \times (6 + 6) - (6/6 + 6)) + 6 \times 6) \\
&:= 7 + ((77 \times ((7 + 7)/7)^7) - (77/7)) \\
&:= ((8 + 8)/8) \times (88 \times (8 \times 8 - 8) - ((8 + 8)/8)) \\
&:= 9 \times (9 + 9) + (99 \times 99 - 999/9)
\end{aligned}$$

- 9853 := $11 + ((1 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1))$
:= $2/2 + (2 \times ((22 \times (222 + 2)) - 2))$
:= $3^3 + ((3 - 3/3) \times (33/3 + 3 + 3)^3)$
:= $4/4 + ((44 \times (4^4 - 4 \times (4 + 4))) - 4)$
:= $(55 - 5/5 + 5) \times ((555 + 5)/5 + 55)$
:= $(66 \times ((6 + 6) \times (6 + 6) + 6)) - (66/6 + 6 \times 6)$
:= $(77 \times ((7 + 7)/7)^7) - (7 + 7 + 7)/7$
:= $8 + (88/8 \times (888 - 8/8 + 8))$
:= $9 + (((99/9) + 9 \times 9) \times ((99 - 9/9) + 9))$
- 9854 := $1 + (11 + ((1 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1)))$
:= $(2 \times (22 \times (222 + 2))) - 2$
:= $(3 \times (3 \times ((33 \times 33 + 3) + 3))) - 3/3$
:= $(44 \times (4^4 - 4 \times (4 + 4))) - (4 + 4)/4$
:= $5 + (((55/5 + 5) \times ((5^5 - 55)/5)) + 5 \times 5)$
:= $((6 + 6)/6 + 66) \times ((6 + 6) \times (6 + 6) + 6/6) - 6$
:= $(77 \times ((7 + 7)/7)^7) - (7 + 7)/7$
:= $((8 + 8)/8) \times (88 \times (8 \times 8 - 8) - 8/8)$
:= $9 + (9999 - 9 \times (9 + 9) + 9/9) + 9$
- 9855 := $(11 \times ((1 + 111) \times (1 + 1)^{1+1+1})) - 1$
:= $(2 \times (22 \times (222 + 2))) - 2/2$
:= $3 \times (3 \times ((33 \times 33 + 3) + 3))$
:= $(44 \times (4^4 - 4 \times (4 + 4))) - 4/4$
:= $5 + ((5 \times (5 \times (5 \times 55 - 5) - 5)) + 5^5)$
:= $6 + ((66 + 6/6) \times (666/6 + 6 \times 6))$
:= $(77 \times ((7 + 7)/7)^7) - 7/7$
:= $(88 \times ((88 + 8 + 8) + 8)) - 8/8$
:= $9 + (9999 - 9 \times (9 + 9) + 9)$
- 9856 := $11 \times ((1 + 111) \times (1 + 1)^{1+1+1})$
:= $2 \times (22 \times (222 + 2))$
:= $3/3 + (3 \times (3 \times ((33 \times 33 + 3) + 3)))$
:= $44 \times (4^4 - 4 \times (4 + 4))$
:= $(55/5 + 5) \times ((5^5 + 5)/5 - (5 + 5))$
:= $(66/6 + 66) \times (((6 + 6)/6)^{6/6+6})$
:= $77 \times ((7 + 7)/7)^7$
:= $88 \times ((88 + 8 + 8) + 8)$
:= $99 \times 99 + ((999 - 9)/ (9 + 9))$
- 9857 := $1 + (11 \times ((1 + 111) \times (1 + 1)^{1+1+1}))$
:= $2/2 + (2 \times (22 \times (222 + 2)))$
:= $3 + ((3 \times (3 \times ((33 \times 33 + 3) + 3))) - 3/3)$
:= $4/4 + (44 \times (4^4 - 4 \times (4 + 4)))$
:= $5^5 + ((5/5 + 5) \times ((5555 + 55)/5))$
:= $6 + (66666/6 + (6 \times (6 - 6 \times 6 \times 6)))$
:= $7/7 + (77 \times ((7 + 7)/7)^7)$
:= $8/8 + (88 \times ((88 + 8 + 8) + 8))$
:= $99 \times 99 + ((999 + 9)/ (9 + 9))$
- 9858 := $1 + (1 + (11 \times ((1 + 111) \times (1 + 1)^{1+1+1})))$
:= $2 + (2 \times (22 \times (222 + 2)))$
:= $3 + (3 \times (3 \times ((33 \times 33 + 3) + 3)))$
:= $(4 + 4)/4 + (44 \times (4^4 - 4 \times (4 + 4)))$
:= $(5 + 5)/5 \times (5555 - (5^5 + 5)/5)$
:= $(66 \times ((6 + 6) \times (6 + 6) + 6)) - (6 \times 6 + 6)$
:= $(7 + 7)/7 + (77 \times ((7 + 7)/7)^7)$
:= $(8 + 8)/8 + (88 \times ((88 + 8 + 8) + 8))$
:= $9 + (((9/9 + 9 \times 9) \times (999/9 + 9)) + 9)$
- 9859 := $1 + (1 + (1 + (11 \times ((1 + 111) \times (1 + 1)^{1+1+1}))))$
:= $2 + ((2 \times (22 \times (222 + 2))) + 2/2)$
:= $3 + ((3 \times (3 \times ((33 \times 33 + 3) + 3))) + 3/3)$
:= $4 + ((44 \times (4^4 - 4 \times (4 + 4))) - 4/4)$
:= $((55/5 + 5) \times (5^5 - 5)/5) - 5 \times 5 \times 5$
:= $6/6 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) - (6 \times 6 + 6))$
:= $(7 + 7 + 7)/7 + (77 \times ((7 + 7)/7)^7)$
:= $(88/8 \times (888 + 8/8 + 8)) - 8$
:= $9999/9 + 9 \times 9 \times (99 + 9)$
- 9860 := $(1 + 1) \times ((1 + 1) \times (1 + ((1 + 1) \times (11 \times (1 + 111)))))$
:= $2 \times ((22 \times (222 + 2)) + 2)$
:= $33 + ((3 \times (3 \times (33 \times 33 + 3))) - 3/3)$
:= $4 + (44 \times (4^4 - 4 \times (4 + 4)))$
:= $(5 + 5) \times (5555/5 - 5 \times 5 \times 5)$
:= $((6 + 6)/6 + 66) \times ((6 + 6) \times (6 + 6) + 6/6)$
:= $77/7 + ((77 \times ((7 + 7)/7)^7) - 7)$
:= $((8 + 8)/8) \times (88 \times (8 \times 8 - 8) + ((8 + 8)/8))$
:= $9 + (((9 \times 99 + 9)/ (9 + 9)) + 99 \times 99)$
- 9861 := $1 + ((1 + 1) \times ((1 + 1) \times (1 + ((1 + 1) \times (11 \times (1 + 111))))))$
:= $2/2 + (2 \times ((22 \times (222 + 2)) + 2))$
:= $33 + (3 \times (3 \times (33 \times 33 + 3)))$
:= $4 + ((44 \times (4^4 - 4 \times (4 + 4))) + 4/4)$
:= $5 + ((55/5 + 5) \times ((5^5 + 5)/5 - (5 + 5)))$
:= $6 + (((66 + 6/6) \times (666/6 + 6 \times 6)) + 6)$
:= $7 + ((77 \times ((7 + 7)/7)^7) - ((7 + 7)/7))$
:= $(88/8 + 8) \times ((8 \times 8 \times 8 - 8/8) + 8)$
:= $9 \times 9 + (99 \times 99 - ((99 + 9)/9 + 9))$
- 9862 := $(1 + 1) \times (1 + ((1 + 1) \times (1 + ((1 + 1) \times (11 \times (1 + 111))))))$
:= $2 + (2 \times ((22 \times (222 + 2)) + 2))$
:= $3/3 + ((3 \times (3 \times (33 \times 33 + 3))) + 33)$
:= $4 + ((44 \times (4^4 - 4 \times (4 + 4))) + (4 + 4)/4)$
:= $(5 + 5)/5 \times (5555 + ((5 - 5^5)/5))$
:= $6 + ((66/6 + 66) \times (((6 + 6)/6)^{6/6+6}))$
:= $7 + (77 \times ((7 + 7)/7)^7) - 7/7$
:= $8 + (((8 + 8)/8) \times (88 \times (8 \times 8 - 8) - 8/8))$
:= $9 \times 9 + (99 \times 99 - (99/9 + 9))$
- 9863 := $((1 + 1)^{1+1+1} \times (1 + (11 \times (1 + 111)))) - 1$
:= $2 + ((2 \times ((22 \times (222 + 2)) + 2)) + 2/2)$
:= $(3 \times ((3 \times ((33 \times 33 + 3) + 3)) + 3)) - 3/3$
:= $4 + (((44 \times (4^4 - 4 \times (4 + 4))) - 4/4) + 4)$
:= $5 + ((5 + 5)/5 \times (5555 - (5^5 + 5)/5))$
:= $(66 \times ((6 + 6) \times (6 + 6) + 6)) - (6 \times 6 + 6/6)$
:= $7 + (77 \times ((7 + 7)/7)^7)$
:= $(8 - 8/8) \times (88 \times (8 + 8) + 8/8)$
:= $9 \times 9 + (99 \times 99 - (9/9 + 9 + 9))$
- 9864 := $(1 + 1)^{1+1+1} \times (1 + (11 \times (1 + 111)))$
:= $2 \times (((22 \times (222 + 2)) + 2) + 2)$
:= $3 \times ((3 \times ((33 \times 33 + 3) + 3)) + 3)$
:= $4 + ((44 \times (4^4 - 4 \times (4 + 4))) + 4)$
:= $(55/5 + 5 \times 5) \times (5 \times 55 - 5/5)$
:= $6 \times ((66 \times (6 \times 6 - 66/6)) - 6)$
:= $7 + ((77 \times ((7 + 7)/7)^7) + 7/7)$
:= $8 + (88 \times ((88 + 8 + 8) + 8))$
:= $9 \times 9 + (99 \times 99 - (9 + 9))$
- 9865 := $1 + ((1 + 1)^{1+1+1} \times (1 + (11 \times (1 + 111))))$
:= $2/2 + (2 \times (((22 \times (222 + 2)) + 2) + 2))$
:= $((3/3 + 3)^3) + (3 \times (3 \times 33 \times 33))$
:= $4 + (((44 \times (4^4 - 4 \times (4 + 4))) + 4/4) + 4)$
:= $5^5 + ((5 \times 5 \times (5 \times 55 - 5)) - (5 + 5))$
:= $6/6 + (6 \times ((66 \times (6 \times 6 - 66/6)) - 6))$
:= $7 + ((77 \times ((7 + 7)/7)^7) + ((7 + 7)/7))$
:= $8 + ((88 \times ((88 + 8 + 8) + 8)) + 8/8)$
:= $9/9 + ((99 \times 99 - (9 + 9)) + 9 \times 9)$
- 9866 := $(11 \times (1 + ((1 + 111) \times (1 + 1)^{1+1+1}))) - 1$
:= $2 + (2 \times ((22 \times (222 + 2)) + 2) + 2)$
:= $33/3 + (3 \times (3 \times ((33 \times 33 + 3) + 3)))$
:= $(44 - 4)/4 + (44 \times (4^4 - 4 \times (4 + 4)))$
:= $5 + (((55/5 + 5) \times ((5^5 + 5)/5 - (5 + 5))) + 5)$
:= $6 + (((6 + 6)/6 + 66) \times ((6 + 6) \times (6 + 6) + 6/6))$
:= $((77 - 7)/7) + (77 \times ((7 + 7)/7)^7)$
:= $8 + ((88 \times ((88 + 8 + 8) + 8)) + ((8 + 8)/8))$
:= $9 + (((999 + 9)/ (9 + 9)) + 99 \times 99)$
- 9867 := $11 \times (1 + ((1 + 111) \times (1 + 1)^{1+1+1}))$
:= $22/2 + (2 \times (22 \times (222 + 2)))$
:= $33 \times ((3 \times 3 \times 33 - 3/3) + 3)$
:= $44/4 + (44 \times (4^4 - 4 \times (4 + 4)))$
:= $5 + ((5 + 5)/5 \times (5555 + ((5 - 5^5)/5)))$
:= $66 + (((666/6 - (6 + 6))^{(6+6)/6})$
:= $77/7 + (77 \times ((7 + 7)/7)^7)$
:= $88/8 \times (888 + 8/8 + 8)$
:= $99 + (999/9 \times (99 - (99/9)))$

$$\begin{aligned}
\blacktriangleright 9868 &:= 11111 - (11 \times (1 + 1 + 111)) \\
&:= 2 \times (((22 \times (222 + 2)) + 2) + 2) + 2 \\
&:= 3 + ((3 \times (3 \times 33 \times 33)) + ((3/3 + 3)^3)) \\
&:= (4 \times (4 \times ((4/4 + 4)^4 - (4 + 4)))) - 4 \\
&:= 5^5 + (55/5 \times ((5^5 - (55 + 5))/5)) \\
&:= (((66 - 6)/6)^{6 - (6+6)/6}) - (66 + 66) \\
&:= (77 + 7)/7 + (77 \times ((7 + 7)/7)^7) \\
&:= 8/8 + (88/8 \times (888 + 8/8 + 8)) \\
&:= 9 + (9999/9 + 9 \times 9 \times (99 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9869 &:= 1 + (11111 - (11 \times (1 + 1 + 111))) \\
&:= 2 + ((2 \times (22 \times (222 + 2))) + 22/2) \\
&:= (33 \times (3 + 3)^3) + ((33/3 + 3)^3 - 3) \\
&:= 4/4 + ((4 \times (4 \times ((4/4 + 4)^4 - (4 + 4)))) - 4) \\
&:= 5 + ((55/5 + 5 \times 5) \times (5 \times 55 - 5/5)) \\
&:= ((6 - 6/6) \times (66 \times (6 \times 6 - 6) - 6)) - 6/6 \\
&:= 7 + (((77 \times ((7 + 7)/7)^7) - 7/7) + 7) \\
&:= 8 + ((88/8 + 8) \times ((8 \times 8 \times 8 - 8/8) + 8)) \\
&:= 9 \times 9 + (99 \times 99 - ((99 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9870 &:= (11 - 1) \times ((11 - 1)^{1+1+1} - (1 + 1 + 11)) \\
&:= 2 + (2 \times (((22 \times (222 + 2)) + 2) + 2) + 2) \\
&:= (3^3 + 3) \times (333 - (3/3 + 3)) \\
&:= ((44 - 4)/4 + 4) \times 4 \times 4 \times 44 + 4/4 \\
&:= 5^5 + ((5 \times 5 \times (5 \times 55 - 5)) - 5) \\
&:= (6 - 6/6) \times (66 \times (6 \times 6 - 6) - 6) \\
&:= 7 + ((77 \times ((7 + 7)/7)^7) + 7) \\
&:= (8 - 8/8) \times (88 \times (8 + 8) + ((8 + 8)/8)) \\
&:= 9 \times 9 + (99 \times 99 - (99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9871 &:= ((1 + 11^{1+1}) \times (11 - 1 - 1)^{1+1}) - 11 \\
&:= 22/2 + (2 \times ((22 \times (222 + 2)) + 2)) \\
&:= (3^3 \times (333 + 33)) - 33/3 \\
&:= (4 \times (4 \times ((4/4 + 4)^4 - (4 + 4)))) - 4/4 \\
&:= 5^5 + (((5 \times 5 \times (5 \times 55 - 5)) - 5) + 5/5) \\
&:= 6/6 + ((6 - 6/6) \times (66 \times (6 \times 6 - 6) - 6)) \\
&:= 7 + (((77 \times ((7 + 7)/7)^7) + 7/7) + 7) \\
&:= ((8/8 + 88) \times 888/8) - 8 \\
&:= 9 \times 9 + (99 \times 99 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9872 &:= (1 + 1)^{1+1+1} \times (1 + (1 + (11 \times (1 + 111)))) \\
&:= 2 \times ((22 \times (222 + 2)) + 2 \times (2 + 2)) \\
&:= (33 \times (3 + 3)^3) + (33/3 + 3)^3 \\
&:= 4 \times (4 \times ((4/4 + 4)^4 - (4 + 4))) \\
&:= 5^5 + ((5/5 + 5)^5 - ((5 - 5/5)^5 + 5)) \\
&:= (6 + 6)/6 + ((6 - 6/6) \times (66 \times (6 \times 6 - 6) - 6)) \\
&:= 7 + (((77 \times ((7 + 7)/7)^7) + ((7 + 7)/7)) + 7) \\
&:= 8 + ((88 \times ((88 + 8 + 8) + 8)) + 8) \\
&:= 9 \times 9 + (99 \times 99 - (9/9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9873 &:= (11 - 1 - 1) \times (1111 - (1 + (1 + 1 + 11))) \\
&:= 2 + ((2 \times ((22 \times (222 + 2)) + 2)) + 22/2) \\
&:= 3 \times (((3 \times 33 \times 33) - 3) + 3^3) \\
&:= 4/4 + (4 \times (4 \times ((4/4 + 4)^4 - (4 + 4)))) \\
&:= 5^5 + ((5 \times 5 \times (5 \times 55 - 5)) - ((5 + 5)/5)) \\
&:= 6 + (((666/6 - (6 + 6))^{(6+6)/6}) + 66) \\
&:= 7 + ((77 \times ((7 + 7)/7)^7) + ((77 - 7)/7)) \\
&:= 8 + (((88 \times ((88 + 8 + 8) + 8)) + 8/8) + 8) \\
&:= 9 \times 9 + (99 \times 99 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9874 &:= 1 + ((11 - 1 - 1) \times (1111 - (1 + (1 + 1 + 11)))) \\
&:= 22 + (2 \times ((22 \times (222 + 2)) - 2)) \\
&:= 3 \times 3333 - (3 - 3/3 + 3)^3 \\
&:= (4 + 4)/4 + (4 \times (4 \times ((4/4 + 4)^4 - (4 + 4)))) \\
&:= 5^5 + ((5 \times 5 \times (5 \times 55 - 5)) - 5/5) \\
&:= ((6 \times 6 - 66/6) \times (6 \times 66 - 6/6)) - 6/6 \\
&:= 7 + ((77 \times ((7 + 7)/7)^7) + (77/7)) \\
&:= ((8 + 8)/8) \times ((88 \times (8 \times 8 - 8) + 8/8) + 8) \\
&:= 9/9 + ((99 \times 99 - 9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9875 &:= 11 + ((1 + 1)^{1+1+1} \times (1 + (11 \times (1 + 111)))) \\
&:= 222/2 + (2 \times (22 \times 222 - 2)) \\
&:= 3 + ((33 \times (3 + 3)^3) + (33/3 + 3)^3) \\
&:= 4 + ((4 \times (4 \times ((4/4 + 4)^4 - (4 + 4)))) - 4/4) \\
&:= 5 \times (5 \times (5 \times (5 \times 55 - 5))) \\
&:= (6 \times 6 - 66/6) \times (6 \times 66 - 6/6) \\
&:= 7 + ((77 \times ((7 + 7)/7)^7) + (77 + 7)/7) \\
&:= 8 + (88/8 \times (888 + 8/8 + 8)) \\
&:= 9 \times 9 + ((99 \times 99 - 9) + ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9876 &:= ((111 - 1)^{1+1}) - ((1 + 1) \times (1 + 1111)) \\
&:= 22 + ((2 \times (22 \times (222 + 2))) - 2) \\
&:= (3^3 \times (333 + 33)) - 3 - 3 \\
&:= 4 + (4 \times (4 \times ((4/4 + 4)^4 - (4 + 4)))) \\
&:= 5^5 + ((5 \times 5 \times (5 \times 55 - 5)) + 5/5) \\
&:= 6 + ((6 - 6/6) \times (66 \times (6 \times 6 - 6) - 6)) \\
&:= 7 + (((77 \times ((7 + 7)/7)^7) - 7/7) + 7) + 7) \\
&:= ((88 + 8)/8) \times (888 - (8/8 + 8 \times 8)) \\
&:= 9 \times 9 + (((9 + 9 + 9)/9) - 9) + 99 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9877 &:= (111 \times (111 - 11 - 11)) - 1 - 1 \\
&:= 22 + ((2 \times (22 \times (222 + 2))) - 2/2) \\
&:= 3 + (3 \times 3333 - (3 - 3/3 + 3)^3) \\
&:= (4 \times 4 + 4/4) \times ((4/4 + 4)^4 - 44) \\
&:= 5^5 + ((5/5 + 5)^5 - ((5 - 5/5)^5 + 5)) \\
&:= 6 + (((6 - 6/6) \times (66 \times (6 \times 6 - 6) - 6)) + 6/6) \\
&:= 7 + (((77 \times ((7 + 7)/7)^7) + 7) + 7) \\
&:= (8 - 8/8) \times ((88 \times (8 + 8) - 8) + (88/8)) \\
&:= 9999 - (999 + 99)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9878 &:= (111 \times (111 - 11 - 11)) - 1 \\
&:= 22 + (2 \times (22 \times (222 + 2))) \\
&:= 33 \times 333 - 3333/3 \\
&:= (44/((4 + 4)/4)) \times ((444 + 4/4) + 4) \\
&:= 55/5 \times ((5^5 - 5 - 5)/5 + 5 \times 55) \\
&:= 66/6 \times ((6 \times ((6 + 6) \times (6 + 6) + 6)) - ((6 + 6)/6)) \\
&:= 77 + ((7 \times (7 + 7) + 7/7)^{(7+7)/7}) \\
&:= 88/8 \times ((888 + ((8 + 8)/8)) + 8) \\
&:= 99/9 \times ((9 \times 99 - ((9 + 9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9879 &:= 111 \times (111 - 11 - 11) \\
&:= 222/2 + (2 \times 22 \times 222) \\
&:= (3^3 \times (333 + 33)) - 3 \\
&:= 444/4 \times (((4 - 4/4)^4 + 4) + 4) \\
&:= 5^5 + (55/5 \times ((5^5 - 55)/5)) \\
&:= 666/6 \times ((66/6 + 66 + 6) + 6) \\
&:= 777/7 \times ((77 + 7)/7 + 77) \\
&:= (8/8 + 88) \times 888/8 \\
&:= 9999 - (999/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9880 &:= 1 + (111 \times (111 - 11 - 11)) \\
&:= 2 + ((2 \times (22 \times (222 + 2))) + 22) \\
&:= 3/3 + ((3^3 \times (333 + 33)) - 3) \\
&:= (4^4 + 4) \times (44 - ((4 + 4)/4 + 4)) \\
&:= 5 + ((5 \times 5 \times (5 \times 55 - 5)) + 5^5) \\
&:= (6/6 - 66) \times (((6 + 6)/6)^6 - 6 \times 6 \times 6) \\
&:= (77 - 7/7) \times (((7 + 7)/7)^7 + ((7 + 7)/7)) \\
&:= (88/8 + 8) \times (8 \times 8 \times 8 + 8) \\
&:= 9 \times 9 + (99 \times 99 - ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9881 &:= 1 + (1 + (111 \times (111 - 11 - 11))) \\
&:= 2 + ((2 \times 22 \times 222) + 222/2) \\
&:= (3^3 \times (333 + 33)) - 3/3 \\
&:= 4 + ((4 \times 4 + 4/4) \times ((4/4 + 4)^4 - 44)) \\
&:= 5 + (((5 \times 5 \times (5 \times 55 - 5)) + 5^5) + 5/5) \\
&:= 6 + ((6 \times 6 - 66/6) \times (6 \times 66 - 6/6)) \\
&:= 7 + (((77 \times ((7 + 7)/7)^7) + (77/7)) + 7) \\
&:= 8/8 + ((88/8 + 8) \times (8 \times 8 \times 8 + 8)) \\
&:= 9 \times 9 + (99 \times 99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9882 &:= (1 + 11^{1+1}) \times (11 - 1 - 1)^{1+1} \\
&:= 22 + (2 \times ((22 \times (222 + 2)) + 2)) \\
&:= 3^3 \times (333 + 33) \\
&:= (4 - 4/4)^4 \times (444 + 44)/4 \\
&:= 5 + (((5/5 + 5)^5 - ((5 - 5/5)^5 + 5)) + 5^5) \\
&:= 6 \times (6 \times 6 \times 66 - ((6 \times 6)/(6 + 6))^6) \\
&:= (77/7 + 7) \times (((77 - 7)/7) + 7 \times 77) \\
&:= (8 + 8)/8 + ((88/8 + 8) \times (8 \times 8 \times 8 + 8)) \\
&:= 9 \times (999 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9883 &:= 1 + ((1 + 11^{1+1}) \times (11 - 1 - 1)^{1+1}) \\
&:= 222/2 + (2 \times (22 \times 222 + 2)) \\
&:= 3/3 + (3^3 \times (333 + 33)) \\
&:= 4 + (444/4 \times (((4 - 4/4)^4 + 4) + 4)) \\
&:= ((5 + 5)^{5-5/5}) - ((555 + 5)/5 + 5) \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - (66/6 + 6) \\
&:= 7 + (((77 \times ((7 + 7)/7)^7) - 7/7) + 7) + 7) \\
&:= 8 + ((88/8 \times (888 + 8/8 + 8)) + 8) \\
&:= 9/9 + (99 \times 99 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9884 &:= 1 + (1 + ((1 + 11^{1+1}) \times (11 - 1 - 1)^{1+1})) \\
&:= (2^{2+2} - 2) \times (222 + 222^2) \\
&:= 3 + (3^3 \times (333 + 33)) - 3/3 \\
&:= 4 + ((4^4 + 4) \times (44 - ((4 + 4)/4 + 4))) \\
&:= ((5 + 5)^{5-5/5}) - (555/5 + 5) \\
&:= (6 - 66)/6 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) - 6) \\
&:= 7 + (((77 \times ((7 + 7)/7)^7) + 7) + 7) + 7) \\
&:= (8 - 8/8) \times (88 \times (8 + 8) + 8 \times 8/(8 + 8)) \\
&:= 9 \times 9 + (99 \times 99 + ((9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9885 &:= 1 + (1 + (1 + ((1 + 11^{1+1}) \times (11 - 1 - 1)^{1+1}))) \\
&:= (22/2)^2 + (2 \times (22 \times 222 - 2)) \\
&:= 3 + (3^3 \times (333 + 33)) \\
&:= ((44 - 4)/4)^4 - (444/4 + 4) \\
&:= 5 + (((5 \times 5 \times (5 \times 55 - 5)) + 5^5) + 5) \\
&:= (666666/66) - 6 \times 6 \times 6 \\
&:= 7 + (((7 \times (7 + 7) + 7/7)^{(7+7)/7}) + 77) \\
&:= 8 \times (8 + 8) + (88/8 \times (888 - 8/8)) \\
&:= 9 \times 9 + (99 \times 99 + ((9 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9886 &:= ((11 - 1)^{1+1+1+1}) - (1 + 1 + 1 + 111) \\
&:= 2 + ((2^{2+2} - 2) \times (222 + 222^2)) \\
&:= 3 + (3^3 \times (333 + 33)) + 3/3 \\
&:= 4 + ((4 - 4/4)^4 \times (444 + 44)/4) \\
&:= 5^5 + ((5 \times 5 \times (5 \times 55 - 5)) + (55/5)) \\
&:= 6 + ((6/6 - 66) \times (((6 + 6)/6)^6 - 6 \times 6 \times 6)) \\
&:= 7 + (777/7 \times ((77 + 7)/7 + 77)) \\
&:= 8 + (88/8 \times ((888 + ((8 + 8)/8)) + 8)) \\
&:= 9999 - ((999 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9887 &:= ((11 - 1)^{1+1+1+1}) - (1 + 1 + 111) \\
&:= (22/2)^2 + ((2 \times 22 \times 222) - 2) \\
&:= 3 \times 3333 - ((333 + 3)/3) \\
&:= ((44 - 4)/4)^4 - ((444 + 4 + 4)/4) \\
&:= ((5 + 5)^{5-5/5}) - (555 + 5 + 5)/5 \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - (6/6 + 6 + 6) \\
&:= 7777 + (((7 + 7 + 7)/7)^7 - 77) \\
&:= 8 + ((8/8 + 88) \times 888/8) \\
&:= 9999 - ((999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9888 &:= ((11 - 1)^{1+1+1+1}) - (1 + 111) \\
&:= 2 \times ((22 \times (222 + 2)) + 2^{2+2}) \\
&:= 3 + (3^3 \times (333 + 33)) + 3 \\
&:= 4 \times ((4 \times ((4/4 + 4)^4 - (4 + 4))) + 4) \\
&:= (55/5 + 5) \times ((5^5 - 5 - 5)/5 - 5) \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - 6 - 6 \\
&:= (7 - 7/7) \times (((7 + 7 + 7)/7)^7 - 7 \times 77) \\
&:= (88 + 8) \times (888/8 - 8) \\
&:= 9999 - 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9889 &:= ((11 - 1)^{1+1+1+1}) - 111 \\
&:= (22/2)^2 + (2 \times 22 \times 222) \\
&:= ((3 - 333)/3) + 3 \times 3333 \\
&:= ((44 - 4)/4)^4 - 444/4 \\
&:= ((5 + 5)^{5-5/5}) - 555/5 \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - 66/6 \\
&:= 7 + ((77/7 + 7) \times (((77 - 7)/7) + 7 \times 77)) \\
&:= 88/8 \times (888 + 88/8) \\
&:= 99 + (99 \times 99 - (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9890 &:= 11111 - 11 \times 111 \\
&:= 2 + (2 \times ((22 \times (222 + 2)) + 2^{2+2})) \\
&:= (3 \times (3333 - (33 + 3))) - 3/3 \\
&:= ((4 - 444)/4) + ((44 - 4)/4)^4 \\
&:= ((5 + 5)^{5-5/5}) - (55 + 55) \\
&:= (6 - 6/6) \times (66 \times (6 \times 6 - 6) - ((6 + 6)/6)) \\
&:= (7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) - 7)) - (7/7 + 7) \\
&:= 8/8 + (88/8 \times (888 + 88/8)) \\
&:= 9 + ((99 \times 99 - 9/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9891 &:= 1 + (11111 - 11 \times 111) \\
&:= 2 + ((2 \times 22 \times 222) + (22/2)^2) \\
&:= 3 \times (3333 - (33 + 3)) \\
&:= ((4^4 - 4)/4) \times ((4 \times (44 - 4) - 4) + 4/4) \\
&:= 5/5 + (((5 + 5)^{5-5/5}) - (55 + 55)) \\
&:= 6 + ((666666/66) - 6 \times 6 \times 6) \\
&:= (7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) - 7)) - 7 \\
&:= 88/8 + ((88/8 + 8) \times (8 \times 8 \times 8 + 8)) \\
&:= 9 + (99 \times 99 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9892 &:= 1 + (1 + (11111 - 11 \times 111)) \\
&:= 2 \times (((22 \times (222 + 2)) + 2^{2+2}) + 2) \\
&:= 3/3 + (3 \times (3333 - (33 + 3))) \\
&:= (4 \times (4 \times ((4/4 + 4)^4 - 4))) - 44 \\
&:= 5 + (((5 + 5)^{5-5/5}) - (555 + 5 + 5)/5) \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - ((6 + 6)/6 + 6) \\
&:= 7/7 + ((7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) - 7)) - 7) \\
&:= (88/8 \times (((88 + 8)/8) + 888)) - 8 \\
&:= 9 + ((99 \times 99 + 9 \times 9) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9893 &:= 1 + (1 + (1 + (11111 - 11 \times 111))) \\
&:= 22^2 + ((2 \times 2 \times (22 + 2) + 2/2)^2) \\
&:= 33/3 + (3^3 \times (333 + 33)) \\
&:= 4 + (((44 - 4)/4)^4 - 444/4) \\
&:= 5 + ((55/5 + 5) \times ((5^5 - 5 - 5)/5 - 5)) \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - 6/6 - 6 \\
&:= ((77/7 + 7) \times (7 \times 77 + (77/7))) - 7 \\
&:= 8 + ((88/8 \times (888 - 8/8)) + 8 \times (8 + 8)) \\
&:= 9 \times 9 + (99 \times 99 + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9894 &:= 1 + (1 + (1 + (1 + (11111 - 11 \times 111)))) \\
&:= (22 \times ((2 \times (222 + 2)) + 2)) - 2 - 2 - 2 \\
&:= 3 + (3 \times (3333 - (33 + 3))) \\
&:= 4 + (((4 - 444)/4) + ((44 - 4)/4)^4) \\
&:= 5 + (((5 + 5)^{5-5/5}) - 555/5) \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - 6 \\
&:= 7 \times 7 + ((77 \times ((7 + 7)/7)^7) - (77/7)) \\
&:= ((8/8 + 88) + 8) \times ((888 - 8)/8 - 8) \\
&:= 9 \times 9 + (99 \times 99 + (99 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9895 &:= ((11 - 1 - 1) \times (1 + 1111)) - (1 + 1 + 111) \\
&:= 2 + (((2 \times 2 \times (22 + 2) + 2/2)^2) + 22^2) \\
&:= 3 + ((3 \times (3333 - (33 + 3))) + 3/3) \\
&:= (4/4 + 4) \times ((44 \times 44 - 4/4) + 44) \\
&:= (55 \times (5 \times 5 \times 5 + 55)) - 5 \\
&:= 6/6 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) - 6) \\
&:= 7 + ((7 - 7/7) \times (((7 + 7 + 7)/7)^7 - 7 \times 77)) \\
&:= 8 + (((8/8 + 88) \times 888/8) + 8) \\
&:= 9 + (9999 - ((999 + 9 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9896 &:= ((11 - 1 - 1) \times (1 + 1111)) - (1 + 111) \\
&:= 2 \times (((22 \times (222 + 2)) - 2) + 22) \\
&:= (3 \times (3333 - 33)) - (3/3 + 3) \\
&:= 4 + ((4 \times (4 \times ((4/4 + 4)^4 - 4))) - 44) \\
&:= 5/5 + ((55 \times (5 \times 5 \times 5 + 55)) - 5) \\
&:= (6 + 6)/6 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) - 6) \\
&:= (7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) - 7)) - (7 + 7)/7 \\
&:= 8 + ((88 + 8) \times (888/8 - 8)) \\
&:= 9 + (9999 - ((999 + 9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9897 &:= ((11 - 1 - 1) \times (1 + 1111)) - 111 \\
&:= (22 \times ((2 \times (222 + 2)) + 2)) - 2/2 - 2 \\
&:= (3 \times (3333 - 33)) - 3 \\
&:= 4 + (((44 - 4)/4)^4 - 444/4) + 4) \\
&:= (5 + 5)/5 + ((55 \times (5 \times 5 \times 5 + 55)) - 5) \\
&:= (66 \times ((6 + 6) \times (6 + 6) + 6)) - 6 \times 6/(6 + 6) \\
&:= (7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) - 7)) - 7/7 \\
&:= 8 + (88/8 \times (888 + 88/8)) \\
&:= 9 + (9999 - 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9898 &:= (11 \times (((11-1) \times (1+1+1))^{1+1})) - 1 - 1 \\
&:= (22 \times ((2 \times (222+2)) + 2)) - 2 \\
&:= 3/3 + ((3 \times (3333-33)) - 3) \\
&:= 4 + (((4-444)/4) + ((44-4)/4)^4) + 4 \\
&:= (55 \times (5 \times 5 \times 5 + 55)) - (5+5)/5 \\
&:= (66 \times ((6+6) \times (6+6) + 6)) - (6+6)/6 \\
&:= 7 \times ((7 \times ((7+7) \times (7+7) + 7)) - 7) \\
&:= (8-8/8) \times ((88 \times (8+8) - ((8+8)/8)) + 8) \\
&:= 99 + (99 \times 99 - ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9899 &:= (11 \times (((11-1) \times (1+1+1))^{1+1})) - 1 \\
&:= (22 \times ((2 \times (222+2)) + 2)) - 2/2 \\
&:= (3 \times (3333-33)) - 3/3 \\
&:= 44 + ((44 \times (4^4 - 4 \times (4+4))) - 4/4) \\
&:= (55 \times (5 \times 5 \times 5 + 55)) - 5/5 \\
&:= (66 \times ((6+6) \times (6+6) + 6)) - 6/6 \\
&:= 7/7 + (7 \times ((7 \times ((7+7) \times (7+7) + 7)) - 7)) \\
&:= (88/8 + 8) \times ((8 \times 8 \times 8 + 8/8) + 8) \\
&:= 99 + (99 \times 99 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9900 &:= 11 \times (((11-1) \times (1+1+1))^{1+1}) \\
&:= 22 \times ((2 \times (222+2)) + 2) \\
&:= 3 \times (3333-33) \\
&:= 44 + (44 \times (4^4 - 4 \times (4+4))) \\
&:= 55 \times (5 \times 5 \times 5 + 55) \\
&:= 66 \times ((6+6) \times (6+6) + 6) \\
&:= (77/7 + 7) \times (7 \times 77 + (77/7)) \\
&:= 88/8 \times (((88+8)/8) + 888) \\
&:= 99 + 99 \times 99
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9901 &:= 1 + (11 \times (((11-1) \times (1+1+1))^{1+1})) \\
&:= 2/2 + (22 \times ((2 \times (222+2)) + 2)) \\
&:= 3/3 + (3 \times (3333-33)) \\
&:= 44 + ((44 \times (4^4 - 4 \times (4+4))) + 4/4) \\
&:= 5/5 + (55 \times (5 \times 5 \times 5 + 55)) \\
&:= 6/6 + (66 \times ((6+6) \times (6+6) + 6)) \\
&:= ((77+7) \times (777/7+7)) - 77/7 \\
&:= 8888 + (8 \times 8 \times (8+8) - (88/8)) \\
&:= 9/9 + (99 \times 99 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9902 &:= 1 + (1 + (11 \times (((11-1) \times (1+1+1))^{1+1}))) \\
&:= 2 + (22 \times ((2 \times (222+2)) + 2)) \\
&:= 3 + ((3 \times (3333-33)) - 3/3) \\
&:= ((44 - (4/4+4)) \times (4^4 - (4+4)/4)) - 4 \\
&:= (5+5)/5 + (55 \times (5 \times 5 \times 5 + 55)) \\
&:= (6+6)/6 + (66 \times ((6+6) \times (6+6) + 6)) \\
&:= (((77-7)/7)^{77/7-7}) - 7 \times (7+7) \\
&:= ((8/8+8) \times (8888-8)/8) - 88 \\
&:= 99 + (99 \times 99 + ((9+9)/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9903 &:= 1 + (1 + (1 + (11 \times (((11-1) \times (1+1+1))^{1+1})))) \\
&:= 2 + ((22 \times ((2 \times (222+2)) + 2)) + 2/2) \\
&:= 3 + (3 \times (3333-33)) \\
&:= 4 \times 4^4 + (((4 \times 4 + 4) \times 444) - 4/4) \\
&:= 5 + ((55 \times (5 \times 5 \times 5 + 55)) - ((5+5)/5)) \\
&:= (6 \times 6/(6+6)) + (66 \times ((6+6) \times (6+6) + 6)) \\
&:= 7 \times 7 + ((77 \times ((7+7)/7)^7) - ((7+7)/7)) \\
&:= 8 + (((8/8+88) \times 888/8) + 8) + 8 \\
&:= 99 \times 99 + (999/9 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9904 &:= 1 + (1 + (1 + (1 + (11 \times (((11-1) \times (1+1+1))^{1+1})))))) \\
&:= 2 + ((22 \times ((2 \times (222+2)) + 2)) + 2) \\
&:= 3 + ((3 \times (3333-33)) + 3/3) \\
&:= 4 \times ((4/4+4) \times 444 + 4^4) \\
&:= (55/5+5) \times ((5^5-5)/5-5) \\
&:= 6 + ((66 \times ((6+6) \times (6+6) + 6)) - ((6+6)/6)) \\
&:= 7 \times 7 + ((77 \times ((7+7)/7)^7) - 7/7) \\
&:= 8888 + (8 \times 8 \times (8+8) - 8) \\
&:= 99 \times 99 + (((999+9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9905 &:= ((1+1) \times (1 + (1 + 1111))) - (111^{1+1}) \\
&:= 2 + (((22 \times ((2 \times (222+2)) + 2)) + 2/2) + 2) \\
&:= 3 + (((3 \times (3333-33)) - 3/3) + 3) \\
&:= 4 \times 4 + (((44-4)/4)^4 - 444/4) \\
&:= 5 + (55 \times (5 \times 5 \times 5 + 55)) \\
&:= 6 + ((66 \times ((6+6) \times (6+6) + 6)) - 6/6) \\
&:= 7 \times 7 + (77 \times ((7+7)/7)^7) \\
&:= (8-8/8) \times ((88 \times (8+8) - 8/8) + 8) \\
&:= 9 + ((9999 - ((999+9)/9)) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9906 &:= ((11-1-1) \times (1 + (1 + 1111))) - 111 \\
&:= 2 + (((22 \times ((2 \times (222+2)) + 2)) + 2) + 2) \\
&:= 3 + ((3 \times (3333-33)) + 3) \\
&:= (44 - (4/4+4)) \times (4^4 - (4+4)/4) \\
&:= 5 + ((55 \times (5 \times 5 \times 5 + 55)) + 5/5) \\
&:= 6 + (66 \times ((6+6) \times (6+6) + 6)) \\
&:= 7/7 + ((77 \times ((7+7)/7)^7) + 7 \times 7) \\
&:= (8 \times (8+8) - 8/8) \times ((8-88)/8 + 88) \\
&:= 9 + ((9999 - 999/9) + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9907 &:= ((11-1-1) \times (1 + (1111-11))) - 1 - 1 \\
&:= 2 + (((22 \times ((2 \times (222+2)) + 2)) + 2/2) + 2) + 2 \\
&:= (3 \times (3333-3^3)) - 33/3 \\
&:= ((44-4)/4)^4 + ((4 - (4+4)^4)/44) \\
&:= 5 + ((55 \times (5 \times 5 \times 5 + 55)) + ((5+5)/5)) \\
&:= 6 + ((66 \times ((6+6) \times (6+6) + 6)) + 6/6) \\
&:= (((7+7)/7)^7 \times (7/7+77)) - 77 \\
&:= 8 + ((88/8+8) \times ((8 \times 8 \times 8 + 8/8) + 8)) \\
&:= 9999 - ((99/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9908 &:= ((11-1-1) \times (1 + (1111-11))) - 1 \\
&:= 2 \times (((22 \times (222+2)) + 22) + 2) + 2 \\
&:= (3 \times ((3333-33) + 3)) - 3/3 \\
&:= 4 + (((4 \times 4 + 4) \times 444) + 4 \times 4^4) \\
&:= 5 + (((55 \times (5 \times 5 \times 5 + 55)) - ((5+5)/5)) + 5) \\
&:= 6 + ((66 \times ((6+6) \times (6+6) + 6)) + ((6+6)/6)) \\
&:= 7 + (((77+7) \times (777/7+7)) - (77/7)) \\
&:= 8 + (88/8 \times (((88+8)/8) + 888)) \\
&:= 9 + ((99 \times 99 - 9/9) + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9909 &:= (11-1-1) \times (1 + (1111-11)) \\
&:= 22/2 + ((22 \times ((2 \times (222+2)) + 2)) - 2) \\
&:= 3 \times ((3333-33) + 3) \\
&:= ((44-4) \times (4^4 - 4 - 4)) - 44/4 \\
&:= 5 + ((55/5+5) \times ((5^5-5)/5-5)) \\
&:= 6 + ((66 \times ((6+6) \times (6+6) + 6)) + (6 \times 6/(6+6))) \\
&:= 77/7 + (7 \times ((7 \times ((7+7) \times (7+7) + 7)) - 7)) \\
&:= 8 \times 8 + (88/8 \times (888-8/8+8)) \\
&:= 9 + (99 \times 99 + 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9910 &:= 1 + ((11-1-1) \times (1 + (1111-11))) \\
&:= 2222 + (2 \times (2^{2+2+2} - 2)^2) \\
&:= 3/3 + (3 \times ((3333-33) + 3)) \\
&:= 4 + ((44 - (4/4+4)) \times (4^4 - (4+4)/4)) \\
&:= 5 + ((55 \times (5 \times 5 \times 5 + 55)) + 5) \\
&:= (6-6/6) \times (66 \times (6 \times 6 - 6) + ((6+6)/6)) \\
&:= ((77+7) \times (777/7+7)) - (7+7)/7 \\
&:= 8888 + (8 \times 8 \times (8+8) - ((8+8)/8)) \\
&:= 9 + ((99 \times 99 + 99) + 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9911 &:= 11 \times (1 + (((11-1) \times (1+1+1))^{1+1})) \\
&:= 22/2 + (22 \times ((2 \times (222+2)) + 2)) \\
&:= 33/3 + (3 \times (3333-33)) \\
&:= (4^4 - 44)/4 \times (4 \times 44 + 44/4) \\
&:= 55/5 + (55 \times (5 \times 5 \times 5 + 55)) \\
&:= 66/6 + (66 \times ((6+6) \times (6+6) + 6)) \\
&:= ((77+7) \times (777/7+7)) - 7/7 \\
&:= 8888 + (8 \times 8 \times (8+8) - 8/8) \\
&:= 99 + (99 \times 99 + (99/9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9912 &:= 111 + ((11 \times (11-1-1))^{1+1}) \\
&:= 2 \times (2 \times (2222 + 2^{2 \times (2+2)})) \\
&:= 3 + (3 \times ((3333-33) + 3)) \\
&:= ((44-4)/4)^4 - (44+44) \\
&:= (5/5+5) \times ((55 \times (5 \times 5 + 5)) + ((5+5)/5)) \\
&:= 6 + ((66 \times ((6+6) \times (6+6) + 6)) + 6) \\
&:= (77+7) \times (777/7+7) \\
&:= (8-8/8) \times (88 \times (8+8) + 8) \\
&:= 99 \times 99 + 999/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9913 &:= 1 + (111 + ((11 \times (11 - 1 - 1))^{1+1})) \\
&:= 2 + ((22 \times ((2 \times (222 + 2)) + 2)) + 22/2) \\
&:= 3 + ((3 \times ((3333 - 33) + 3)) + 3/3) \\
&:= 4 + (((44 - 4) \times (4^4 - 4 - 4)) - 44/4) \\
&:= ((5 + 5)^{5-5/5}) - (((5 + 5)/5)^5 + 55) \\
&:= 6 + (((66 \times ((6 + 6) \times (6 + 6) + 6)) + 6/6) + 6) \\
&:= 7/7 + ((77 + 7) \times (777/7 + 7)) \\
&:= 8/8 + (8888 + 8 \times 8 \times (8 + 8)) \\
&:= 99 \times 99 + ((999 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9914 &:= 1 + (1 + (111 + ((11 \times (11 - 1 - 1))^{1+1}))) \\
&:= 2 + (2 \times (2 \times (2222 + 2^{2 \times (2+2)}))) \\
&:= (3 \times (3333 - 3^3)) - (3/3 + 3) \\
&:= ((44 - 4) \times (4^4 - 4 - 4)) - ((4 + 4)/4 + 4) \\
&:= 5 + (((55/5 + 5) \times ((5^5 - 5)/5 - 5)) + 5) \\
&:= 6 + (((66 \times ((6 + 6) \times (6 + 6) + 6)) + ((6 + 6)/6)) + 6) \\
&:= 7 + (((7 + 7)/7)^7 \times (7/7 + 77)) - 77 \\
&:= (8 + 8)/8 + (8888 + 8 \times 8 \times (8 + 8)) \\
&:= 99 \times 99 + ((999 + 9 + 9)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9915 &:= 1 + (1 + (1 + (111 + ((11 \times (11 - 1 - 1))^{1+1})))) \\
&:= 2 + (((22 \times ((2 \times (222 + 2)) + 2)) + 22/2) + 2) \\
&:= (3 \times (3333 - 3^3)) - 3 \\
&:= ((44 - 4)/4)^4 - ((4 - 4/4)^4 + 4) \\
&:= ((55/5 + 5) \times (5^5/5 - 5)) - 5 \\
&:= 66 + ((66 + 6/6) \times (666/6 + 6 \times 6)) \\
&:= 7777 + (((7 + 7 + 7)/7)^7 - 7 \times 7) \\
&:= 8 + (((88/8 + 8) \times ((8 \times 8 \times 8 + 8/8) + 8)) + 8) \\
&:= 9999 - (((9 + 9 + 9)/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9916 &:= ((11 - 1 - 1) \times (1 + (1 + (1111 - 11)))) - 1 - 1 \\
&:= 2 \times ((2 \times (2222 + 2^{2 \times (2+2)})) + 2) \\
&:= 3/3 + ((3 \times (3333 - 3^3)) - 3) \\
&:= ((44 - 4) \times (4^4 - 4 - 4)) - 4 \\
&:= 5 + ((55 \times (5 \times 5 \times 5 + 55)) + (55/5)) \\
&:= (66 + 6/6) \times ((666 + 6)/6 + 6 \times 6) \\
&:= 7 \times 7 + (((77 \times ((7 + 7)/7)^7) + (77/7)) \\
&:= 8 + ((88/8 \times ((88 + 8)/8) + 888) + 8) \\
&:= 9999 - (((9 + 9)/9) + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9917 &:= ((11 - 1 - 1) \times (1 + (1 + (1111 - 11)))) - 1 \\
&:= (22^{2/2+2}) - (((2/2 + 2)^{2+2+2}) + 2) \\
&:= (3 \times (3333 - 3^3)) - 3/3 \\
&:= 4/4 + (((44 - 4) \times (4^4 - 4 - 4)) - 4) \\
&:= 5 + ((55 \times (5 \times 5 \times 5 + 55)) + ((55 + 5)/5)) \\
&:= 6 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) + (66/6)) \\
&:= 7 + (((77 + 7) \times (777/7 + 7)) - ((7 + 7)/7)) \\
&:= 8 + ((88/8 \times (888 - 8/8 + 8)) + 8 \times 8) \\
&:= 9999 - (9/9 + 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9918 &:= (11 - 1 - 1) \times (1 + (1 + (1111 - 11))) \\
&:= (2^{2+2} + 2) \times (((22 + 2/2)^2) + 22) \\
&:= 3 \times (3333 - 3^3) \\
&:= ((44 - 4) \times (4^4 - 4 - 4)) - (4 + 4)/4 \\
&:= ((55/5 + 5) \times (5^5/5 - 5)) - (5 + 5)/5 \\
&:= 6 + (((66 \times ((6 + 6) \times (6 + 6) + 6)) + 6) + 6) \\
&:= 7 + (((77 + 7) \times (777/7 + 7)) - 7/7) \\
&:= (8/8 + 8) \times ((8888 - 8)/8 - 8) \\
&:= 9999 - 9 \times 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9919 &:= 1 + ((11 - 1 - 1) \times (1 + (1 + (1111 - 11)))) \\
&:= (22^{2/2+2}) - ((2/2 + 2)^{2+2+2}) \\
&:= 3/3 + (3 \times (3333 - 3^3)) \\
&:= ((44 - 4)/4)^4 - (4 - 4/4)^4 \\
&:= ((55/5 + 5) \times (5^5/5 - 5)) - 5/5 \\
&:= ((6 \times 6 - 66/6) \times (6 \times 66 + 6/6)) - 6 \\
&:= 7 + ((77 + 7) \times (777/7 + 7)) \\
&:= (8 - 8/8) \times ((88 \times (8 + 8) + 8/8) + 8) \\
&:= 9/9 + (9999 - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9920 &:= ((1 + 11)^{1+1+1}) + ((1 + 1)^{1+1+11}) \\
&:= 2^{2+2} \times (((22 + 2)^2) + 2 \times 22) \\
&:= 3 + ((3 \times (3333 - 3^3)) - 3/3) \\
&:= (44 - 4) \times (4^4 - 4 - 4) \\
&:= (55/5 + 5) \times (5^5/5 - 5) \\
&:= ((6 + 6)/6)^6 \times ((6 + 6) \times (6 + 6) + (66/6)) \\
&:= 7 + (((77 + 7) \times (777/7 + 7)) + 7/7) \\
&:= 8 \times ((8 + 8) \times (8 \times 8 + 8) + 88) \\
&:= (9 + 9)/9 + (9999 - 9 \times 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9921 &:= (11 \times (11 \times (1 + (11 - 1 - 1))^{1+1})) - 1 \\
&:= (22^2 - 2)/2 + (22^2 \times (22 - 2)) \\
&:= 3 + (3 \times (3333 - 3^3)) \\
&:= 4/4 + ((44 - 4) \times (4^4 - 4 - 4)) \\
&:= 5/5 + ((55/5 + 5) \times (5^5/5 - 5)) \\
&:= (6 \times (6 - 6 \times 6)) + (666666/66) \\
&:= 7 + (((77 + 7)/7)^7 \times (7/7 + 77)) - 77 + 7 \\
&:= 8/8 + (8 \times ((8 + 8) \times (8 \times 8 + 8) + 88)) \\
&:= 9 + (99 \times 99 + 999/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9922 &:= 11 \times (11 \times (1 + (11 - 1 - 1))^{1+1}) \\
&:= 22 + (22 \times ((2 \times (222 + 2)) + 2)) \\
&:= 3 + ((3 \times (3333 - 3^3)) + 3/3) \\
&:= (4 + 4)/4 + ((44 - 4) \times (4^4 - 4 - 4)) \\
&:= (5 + 5)/5 + ((55/5 + 5) \times (5^5/5 - 5)) \\
&:= 6 + ((66 + 6/6) \times ((666 + 6)/6 + 6 \times 6)) \\
&:= 77 + ((77 \times ((7 + 7)/7)^7) - (77/7)) \\
&:= (8 + 8)/8 + (8 \times ((8 + 8) \times (8 \times 8 + 8) + 88)) \\
&:= 99/9 \times ((99/9) + 9 \times 99)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9923 &:= 1 + (11 \times (11 \times (1 + (11 - 1 - 1))^{1+1})) \\
&:= 222/2 + (22 \times (2 \times 222 + 2)) \\
&:= 3 + (((3 \times (3333 - 3^3)) - 3/3) + 3) \\
&:= 4 + (((44 - 4)/4)^4 - (4 - 4/4)^4) \\
&:= 5^5 + (55/5 \times ((5^5 - 5 - 5)/5 - 5)) \\
&:= 66666/6 - (66 \times (6 + 6 + 6)) \\
&:= (((77 - 7)/7)^{77/7-7}) - 77 \\
&:= 88/8 + (8888 + 8 \times 8 \times (8 + 8)) \\
&:= 99 \times 99 + (999 + 99)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9924 &:= (1 + 11) \times ((1 + 1)^{11} - 11 \times 111) \\
&:= 2 \times ((2 \times (2 + 2 + 2)^2) - 222) \\
&:= 3 + ((3 \times (3333 - 3^3)) + 3) \\
&:= 4 + ((44 - 4) \times (4^4 - 4 - 4)) \\
&:= 5 + (((55/5 + 5) \times (5^5/5 - 5)) - 5/5) \\
&:= (6 + 6) \times ((66 \times (6 + 6) - 6/6) + 6 \times 6) \\
&:= (77 + 7)/7 \times ((777 + 7 \times 7) + 7/7) \\
&:= 8 \times 888 + ((8 \times 8 \times 88 + 8)/((8 + 8)/8)) \\
&:= 9 + (9999 - (((9 + 9 + 9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9925 &:= 1 + ((1 + 11) \times ((1 + 1)^{11} - 11 \times 111)) \\
&:= 2 + ((22 \times (2 \times 222 + 2)) + 222/2) \\
&:= (3 \times (3 + 3))^3 + ((3/3 + 3)^{3+3} - 3) \\
&:= 4 + (((44 - 4) \times (4^4 - 4 - 4)) + 4/4) \\
&:= 5 + ((55/5 + 5) \times (5^5/5 - 5)) \\
&:= (6 \times 6 - 66/6) \times (6 \times 66 + 6/6) \\
&:= 77 + ((77 \times ((7 + 7)/7)^7) - (7/7 + 7)) \\
&:= (88/8 \times ((888 - 8/8 + 8) + 8)) - 8 \\
&:= 9 + (9999 - (((9 + 9)/9) + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9926 &:= 1 + (1 + ((1 + 11) \times ((1 + 1)^{11} - 11 \times 111))) \\
&:= 2 + ((22 \times ((22 - 2/2)^2)) + 222) \\
&:= 3 \times 3333 - (((3 + 3)^3 + 3)/3) \\
&:= 4 + (((44 - 4) \times (4^4 - 4 - 4)) + (4 + 4)/4) \\
&:= 5 + (((55/5 + 5) \times (5^5/5 - 5)) + 5/5) \\
&:= 6 + (((6 + 6)/6)^6 \times ((6 + 6) \times (6 + 6) + (66/6))) \\
&:= 77 + ((77 \times ((7 + 7)/7)^7) - 7) \\
&:= 8 + ((8/8 + 8) \times ((8888 - 8)/8 - 8)) \\
&:= 9 + (9999 - (9/9 + 9 \times 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9927 &:= (11 - 1 - 1) \times (1 + (1 + (1 + (1111 - 11)))) \\
&:= (2/2 + 2)^2 \times ((2222/2) - 2 \times (2 + 2)) \\
&:= 3 \times ((3333 - 3^3) + 3) \\
&:= 4 + (((44 - 4)/4)^4 - (4 - 4/4)^4) + 4 \\
&:= 555 + ((5 - (5 + 5)/5) \times (5^5 - 5/5)) \\
&:= ((66/6) \times (666/6 + 66 \times (6 + 6))) - 6 \\
&:= 7/7 + (((77 \times ((7 + 7)/7)^7) - 7) + 77) \\
&:= (8/8 + 8) \times (8888/8 - 8) \\
&:= 9 + (9999 - 9 \times 9)
\end{aligned}$$

- 9928 := $1 + ((11 - 1 - 1) \times (1 + (1 + (1 + (1111 - 11))))))$
:= $2 \times (((2 \times (2 + 2 + 2))^2 - 222) + 2)$
:= $(3 \times (3 + 3))^3 + (3/3 + 3)^{3+3}$
:= $4 + (((44 - 4) \times (4^4 - 4 - 4)) + 4)$
:= $((5 - 5^5)/(5 + 5)) + ((5 + 5) \times (5 - 5/5)^5)$
:= $((66 - 6)/6)^{6-(6+6)/6} - (66 + 6)$
:= $((7 + 7)/7)^7 + ((7 + 7) \times (777 - 77))$
:= $8 + (8 \times ((8 + 8) \times (8 \times 8 + 8) + 88))$
:= $9 + ((9999 - 9 \times 9) + 9/9)$
- 9929 := $11 + ((11 - 1 - 1) \times (1 + (1 + (1111 - 11))))$
:= $(2 \times 2^{2+2+2}) + (((22/2)^2 - 22)^2)$
:= $33/3 + (3 \times (3333 - 3^3))$
:= $4 + (((44 - 4) \times (4^4 - 4 - 4)) + 4/4 + 4)$
:= $((55/5 + 5) \times (5^5 - 5)/5) - 55$
:= $(6 \times (6 \times (6 \times 6 \times 6 - 6 + 66))) - 6/6 - 6$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - (77/7 + 7)$
:= $8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 88)) + 8/8)$
:= $99/9 + (9999 - 9 \times 9)$
- 9930 := $(1 + 1) \times ((11 + ((1 + 11^{1+1})^{1+1}))/ (1 + 1 + 1))$
:= $2 \times (22 \times 222 + (2/2 + 2)^{2+2})$
:= $3 + (3 \times ((3333 - 3^3) + 3))$
:= $(44 - 4)/4 + ((44 - 4) \times (4^4 - 4 - 4))$
:= $5^5 + ((555 + 5^5) + 5^5)$
:= $(6 - 6/6) \times (66 \times (6 \times 6 - 6) + 6)$
:= $7 + (((77 - 7)/7)^{77/7-7} - 77)$
:= $8 + ((8 \times ((8 + 8) \times (8 \times 8 + 8) + 88)) + ((8 + 8)/8))$
:= $9 + ((99 \times 99 + 999/9) + 9)$
- 9931 := $(11 \times (11 \times (1 + 1 + 1))^{1+1}) - (1 + 1)^{11}$
:= $((2/2 - 22) \times (22/2 - 22^2)) - 2$
:= $3 + ((3/3 + 3)^{3+3} + (3 \times (3 + 3))^3)$
:= $44/4 + ((44 - 4) \times (4^4 - 4 - 4))$
:= $((55/5 + 5) \times ((5^5 + 5)/5 - 5)) - 5$
:= $6 + ((6 \times 6 - 66/6) \times (6 \times 66 + 6/6))$
:= $77 + ((77 \times ((7 + 7)/7)^7) - ((7 + 7)/7))$
:= $8 \times 8 + (88/8 \times (888 + 8/8 + 8))$
:= $9 + ((99/9) \times ((99/9) + 9 \times 99))$
- 9932 := $(11 \times ((1 + 1)^{11-1} - 11^{1+1})) - 1$
:= $2 \times ((22 \times (222 + 2 + 2)) - (2 + 2 + 2))$
:= $3 \times 3333 - (((3/3 + 3)^3) + 3)$
:= $(4 \times (4 \times ((4/4 + 4)^4 - 4))) - 4$
:= $((5 + 5)/5)^5 + (55 \times (5 \times 5 \times 5 + 55))$
:= $(6 + 6)/6 + ((6 - 6/6) \times (66 \times (6 \times 6 - 6) + 6))$
:= $77 + ((77 \times ((7 + 7)/7)^7) - 7/7)$
:= $((88 + 8)/8) + (8 \times ((8 + 8) \times (8 \times 8 + 8) + 88))$
:= $9 + ((999 + 99)/9 + 99 \times 99)$
- 9933 := $11 \times ((1 + 1)^{11-1} - 11^{1+1})$
:= $(2/2 - 22) \times (22/2 - 22^2)$
:= $33 + (3 \times (3333 - 33))$
:= $4/4 + ((4 \times (4 \times ((4/4 + 4)^4 - 4))) - 4)$
:= $555 + ((5 - (5 + 5)/5) \times (5^5 + 5/5))$
:= $66/6 \times (666/6 + 66 \times (6 + 6))$
:= $77 + (77 \times ((7 + 7)/7)^7)$
:= $88/8 \times ((888 - 8/8 + 8) + 8)$
:= $99/9 \times ((99 + 9)/9 + 9 \times 99)$
- 9934 := $1 + (11 \times ((1 + 1)^{11-1} - 11^{1+1}))$
:= $(2 \times 22)^2 + ((22 - 2)^{2/2+2} - 2)$
:= $3 + (((3/3 + 3)^{3+3} + (3 \times (3 + 3))^3) + 3)$
:= $((44 - 4)/4)^4 - ((4^4 + 4 + 4)/4)$
:= $5^5 + (55/5 \times ((5^5 - 5)/5 - 5))$
:= $((66 - 6)/6)^{6-(6+6)/6} - 66$
:= $7/7 + ((77 \times ((7 + 7)/7)^7) + 77)$
:= $8 + (((8/8 + 8) \times ((8888 - 8)/8 - 8)) + 8)$
:= $9 + ((9999 - ((9 + 9)/9) + 9 \times 9)) + 9$
- 9935 := $1 + (1 + (11 \times ((1 + 1)^{11-1} - 11^{1+1})))$
:= $2 + ((2/2 - 22) \times (22/2 - 22^2))$
:= $3 \times 3333 - ((3/3 + 3)^3)$
:= $((44 - 4)/4)^4 - (4^4 + 4)/4$
:= $((5 + 5)^{5-5/5}) - (55 + 5 + 5)$
:= $(6 \times (6 \times (6 \times 6 \times 6 - 6 + 66))) - 6/6$
:= $((7 + 7)/7)^7 \times (7/7 + 77) - 7 \times 7$
:= $8 + ((8/8 + 8) \times (8888/8 - 8))$
:= $9 + ((9999 - (9/9 + 9 \times 9)) + 9)$
- 9936 := $(1 + 1 + 1) \times ((1 + 11)^{1+1} \times (1 + (11 + 11)))$
:= $2 \times (2 \times (22 \times (222/2 + 2) - 2))$
:= $3 \times (((3333 - 3^3) + 3) + 3)$
:= $4 \times (4 \times ((4/4 + 4)^4 - 4))$
:= $(55/5 + 5) \times ((5^5 + 5)/5 - 5)$
:= $6 \times (6 \times (6 \times 6 \times 6 - 6 + 66))$
:= $((7 + 7)/7 + 7) \times (7777/7 - 7)$
:= $(88 \times ((888 + 8 + 8)/8)) - 8$
:= $9 + ((9999 - 9 \times 9) + 9)$
- 9937 := $1 + ((1 + 1 + 1) \times ((1 + 11)^{1+1} \times (1 + (11 + 11))))$
:= $((22/2 + 2)^2) + (2 \times 22 \times 222)$
:= $3 \times 3 + ((3/3 + 3)^{3+3} + (3 \times (3 + 3))^3)$
:= $4/4 + (4 \times (4 \times ((4/4 + 4)^4 - 4)))$
:= $5/5 + ((55/5 + 5) \times ((5^5 + 5)/5 - 5))$
:= $6/6 + (6 \times (6 \times (6 \times 6 \times 6 - 6 + 66)))$
:= $((7 - 77)/7) + (7 \times (7 \times ((7 + 7) \times (7 + 7) + 7)))$
:= $(88/8 + 8) \times (8 \times 8 \times 8 + 88/8)$
:= $9 + (((9999 - 9 \times 9) + 9/9) + 9)$
- 9938 := $1 + (1 + ((1 + 1 + 1) \times ((1 + 11)^{1+1} \times (1 + (11 + 11))))))$
:= $(2 \times ((22 \times (222 + 2 + 2)) - 2)) - 2$
:= $3 + (3 \times 3333 - ((3/3 + 3)^3))$
:= $(4 + 4)/4 + (4 \times (4 \times ((4/4 + 4)^4 - 4)))$
:= $((5 + 5)^{5-5/5}) + ((5 - 5^5/5)/(5 + 5))$
:= $(6 + 6)/6 + (6 \times (6 \times (6 \times 6 \times 6 - 6 + 66)))$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - ((7 + 7)/7 + 7)$
:= $8/8 + ((88/8 + 8) \times (8 \times 8 \times 8 + 88/8))$
:= $9 + ((9999 - 9 \times 9) + (99/9))$
- 9939 := $(1 + 1 + 1) \times (1 + ((1 + 11)^{1+1} \times (1 + (11 + 11))))$
:= $(2 \times ((22 \times (222 + 2 + 2)) - 2)) - 2/2$
:= $3 \times 3333 - (3^3 + 33)$
:= $4 + (((44 - 4)/4)^4 - (4^4 + 4)/4)$
:= $((5 + 5)^{5-5/5}) - ((55 + 5/5) + 5)$
:= $6 + ((66/6) \times (666/6 + 66 \times (6 + 6)))$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - (7/7 + 7)$
:= $8 + ((88/8 \times (888 + 8/8 + 8)) + 8 \times 8)$
:= $9 + (((99 \times 99 + 999/9) + 9) + 9)$
- 9940 := $(111 \times (111 - 1 - 1 - 1)) - (1 + 1)^{11}$
:= $2 \times ((22 \times (222 + 2 + 2)) - 2)$
:= $3/3 + (3 \times 3333 - (3^3 + 33))$
:= $4 + (4 \times (4 \times ((4/4 + 4)^4 - 4)))$
:= $((5 + 5)^{5-5/5}) - 55 - 5$
:= $6 + (((66 - 6)/6)^{6-(6+6)/6} - 66)$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - 7$
:= $(8 - 8/8) \times (((88 + 8)/8) + 88 \times (8 + 8))$
:= $9 + (((99/9) \times ((99/9) + 9 \times 99)) + 9)$
- 9941 := $((111 - 1)^{1+1}) - (111 + (1 + 1)^{11})$
:= $2/2 + (2 \times ((22 \times (222 + 2 + 2)) - 2))$
:= $3 + ((3 \times 3333 - ((3/3 + 3)^3)) + 3)$
:= $4 + ((4 \times (4 \times ((4/4 + 4)^4 - 4))) + 4/4)$
:= $5 + ((55/5 + 5) \times ((5^5 + 5)/5 - 5))$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6 + 66))) - 6/6)$
:= $7/7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - 7)$
:= $8 + (88/8 \times ((888 - 8/8 + 8) + 8))$
:= $9999 + (((9 - 9 \times 99)/(9 + 9)) - 9)$
- 9942 := $((111 - 1) \times (111 - 1 - 1)) - (1 + 1)^{11}$
:= $(2 \times (22 \times (222 + 2 + 2))) - 2$
:= $(3 \times (3333 - (3 \times (3 + 3)))) - 3$
:= $4 + ((4 \times (4 \times ((4/4 + 4)^4 - 4))) + (4 + 4)/4)$
:= $(5 + 5)/5 + (((5 + 5)^{5-5/5}) - (55 + 5))$
:= $6 + (6 \times (6 \times (6 \times 6 \times 6 - 6 + 66)))$
:= $7 + (((7 + 7)/7)^7 \times (7/7 + 77)) - 7 \times 7$
:= $(88 \times ((888 + 8 + 8)/8)) - (8 + 8)/8$
:= $9 + ((99/9) \times ((99 + 9)/9 + 9 \times 99))$

- 9943 := $(11 \times (1 + ((1 + 1)^{11-1} - 11^{1+1}))) - 1$
:= $(2 \times (22 \times (222 + 2 + 2))) - 2/2$
:= $3/3 + ((3 \times (3333 - (3 \times (3 + 3)))) - 3)$
:= $4 + (((44 - 4)/4)^4 - (4^4 + 4)/4 + 4)$
:= $((5 + 5)^{5-5/5}) - ((5 + 5)/5 + 55)$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6 + 66))) + 6/6)$
:= $7 + (((7 + 7)/7 + 7) \times (7777/7 - 7))$
:= $8 \times 8 + ((8/8 + 88) \times 888/8)$
:= $9999 - ((999 + 9)/(9 + 9))$
- 9944 := $11 \times (1 + ((1 + 1)^{11-1} - 11^{1+1}))$
:= $2 \times (22 \times (222 + 2 + 2))$
:= $(3 \times (3333 + 3)) - ((3/3 + 3)^3)$
:= $4 + ((4 \times (4 \times ((4/4 + 4)^4 - 4))) + 4)$
:= $((5 + 5)^{5-5/5}) - (55 + 5/5)$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6 + 66))) + ((6 + 6)/6))$
:= $77 + ((77 \times ((7 + 7)/7)^7) + (77/7))$
:= $88 \times ((888 + 8 + 8)/8)$
:= $9999 + ((9 - 999)/(9 + 9))$
- 9945 := $1 + (11 \times (1 + ((1 + 1)^{11-1} - 11^{1+1})))$
:= $2/2 + (2 \times (22 \times (222 + 2 + 2)))$
:= $3 \times (3333 - (3 \times (3 + 3)))$
:= $(4^4 - 4/4) \times (44 - (4/4 + 4))$
:= $((5 + 5)^{5-5/5}) - 55$
:= $(6/6 + 6 + 6) \times (((6 \times 6)/(6 + 6))^6) + 6 \times 6$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - (7 + 7)/7$
:= $8/8 + (88 \times ((888 + 8 + 8)/8))$
:= $9 + (((9999 - 9 \times 9) + 9) + 9)$
- 9946 := $1 + (1 + (11 \times (1 + ((1 + 1)^{11-1} - 11^{1+1}))))$
:= $2 + (2 \times (22 \times (222 + 2 + 2)))$
:= $3/3 + (3 \times (3333 - (3 \times (3 + 3))))$
:= $4/4 + ((4^4 - 4/4) \times (44 - (4/4 + 4)))$
:= $5/5 + (((5 + 5)^{5-5/5}) - 55)$
:= $6 + (((((66 - 6)/6)^{6-(6+6)/6}) - 66) + 6)$
:= $(7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - 7/7$
:= $(8 + 8)/8 + (88 \times ((888 + 8 + 8)/8))$
:= $9 + (((9999 - 9 \times 9) + 9/9) + 9) + 9$
- 9947 := $111 + (((1 + 1 + 1)^{11-1-1}) - 11)/(1 + 1)$
:= $2 + ((2 \times (22 \times (222 + 2 + 2))) + 2/2)$
:= $((3^3 - 3/3) + 3) \times ((3/3 + 3 + 3)^3)$
:= $44/4 + (4 \times (4 \times ((4/4 + 4)^4 - 4)))$
:= $(5 + 5)/5 + (((5 + 5)^{5-5/5}) - 55)$
:= $66/6 + (6 \times (6 \times (6 \times 6 \times 6 - 6 + 66)))$
:= $7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))$
:= $(88/8 \times ((888 + 8/8 + 8) + 8)) - 8$
:= $9 + (((9999 - 9 \times 9) + (99/9)) + 9)$
- 9948 := $(1 + 1) \times ((1 + 1) \times (1 + ((1 + 1) \times (11 \times (1 + 1 + 11))))$
:= $2 \times ((22 \times (222 + 2 + 2)) + 2)$
:= $3 + (3 \times (3333 - (3 \times (3 + 3))))$
:= $((44 - 4)/4)^4 - (44 + 4 + 4)$
:= $5 + (((5 + 5)^{5-5/5}) - ((5 + 5)/5 + 55))$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6 + 66))) + 6)$
:= $7/7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) + 7)))$
:= $8 + ((8 - 8/8) \times (((88 + 8)/8) + 88 \times (8 + 8)))$
:= $999/9 + (9999 - 9 \times (9 + 9))$
- 9949 := $1 + ((1 + 1) \times ((1 + 1) \times (1 + ((1 + 1) \times (11 \times (1 + 1 + 11))))$
:= $2/2 + (2 \times ((22 \times (222 + 2 + 2)) + 2))$
:= $3 + ((3 \times (3333 - (3 \times (3 + 3)))) + 3/3)$
:= $4 + ((4^4 - 4/4) \times (44 - (4/4 + 4)))$
:= $5 + (((5 + 5)^{5-5/5}) - (55 + 5/5))$
:= $6 + (((6 \times (6 \times (6 \times 6 \times 6 - 6 + 66))) + 6/6) + 6)$
:= $(7 + 7)/7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) + 7)))$
:= $8 + ((88/8 \times ((888 - 8/8 + 8) + 8)) + 8)$
:= $9999 - ((9 \times 99 + 9)/(9 + 9))$
- 9950 := $(11 - 1) \times ((11 - 1)^{1+1+1} - (1 + (1 + 1 + 1 + 1)))$
:= $2 + (2 \times ((22 \times (222 + 2 + 2)) + 2))$
:= $3 + (((3^3 - 3/3) + 3) \times ((3/3 + 3 + 3)^3))$
:= $((44 - 4)/4)^4 - (((4 + 4)/4 + 44) + 4)$
:= $5 + (((5 + 5)^{5-5/5}) - 55)$
:= $(6 \times 6 - 66/6) \times (((6 + 6)/6) + 6 \times 66)$
:= $7777 + (((7 + 7 + 7)/7)^7 - (7 + 7))$
:= $8 + ((88 \times ((888 + 8 + 8)/8)) - ((8 + 8)/8))$
:= $9999 + ((9 - 9 \times 99)/(9 + 9))$
- 9951 := $111 + (((1 + 1 + 1)^{11-1-1}) - 1)/(1 + 1) - 1$
:= $2 + ((2 \times (22 \times (222 + 2 + 2)) + 2) + 2/2)$
:= $33 + (3 \times (3333 - 3^3))$
:= $((44 - 4)/4)^4 - ((44 + 4/4) + 4)$
:= $5 + (((5 + 5)^{5-5/5}) - 55) + 5/5$
:= $6 + ((6/6 + 6 + 6) \times (((6 \times 6)/(6 + 6))^6) + 6 \times 6)$
:= $((77 - 7)/7)^{77/7-7} - 7 \times 7$
:= $8 + (((8/8 + 88) \times 888/8) + 8 \times 8)$
:= $9 \times (9 + 9) + (99 \times 99 - (99 + 9)/9)$
- 9952 := $111 + (((1 + 1 + 1)^{11-1-1}) - 1)/(1 + 1)$
:= $2 \times (((22 \times (222 + 2 + 2)) + 2) + 2)$
:= $3/3 + ((3 \times (3333 - 3^3)) + 33)$
:= $4 \times ((4 \times ((4/4 + 4)^4 - 4)) + 4)$
:= $(55/5 + 5) \times ((5^5 + 5 + 5)/5 - 5)$
:= $((66 - 6)/6)^{6-(6+6)/6} - (6 \times 6 + 6 + 6)$
:= $7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - ((7 + 7)/7))$
:= $8 + (88 \times ((888 + 8 + 8)/8))$
:= $9 \times (9 + 9) + (99 \times 99 - (99/9))$
- 9953 := $111 + ((1 + ((1 + 1 + 1)^{11-1-1}))/ (1 + 1))$
:= $2/2 + (2 \times (((22 \times (222 + 2 + 2)) + 2) + 2))$
:= $(3 \times (3333 - 3)) - (3/3 + 33 + 3)$
:= $4/4 + (4 \times ((4 \times ((4/4 + 4)^4 - 4)) + 4))$
:= $((5 + 5)/5)^5 + 5 \times (5 \times 55 - (5/5 + 5))$
:= $6 + ((6 \times (6 \times (6 \times 6 \times 6 - 6 + 66))) + (66/6))$
:= $7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - 7/7)$
:= $8 + ((88 \times ((888 + 8 + 8)/8)) + 8/8)$
:= $9 \times (9 + 9) + (99 \times 99 - (9/9 + 9))$
- 9954 := $(11 - 1 - 1) \times (1111 - (1 + (1 + 1 + 1 + 1)))$
:= $(2 \times (2 + 2) + 2)^{2+2} - (2 \times 22 + 2)$
:= $3 \times ((3333 - (3 \times (3 + 3))) + 3)$
:= $((44 - 4)/4)^4 - ((4 + 4)/4 + 44)$
:= $(5 - 5/5 + 5) \times (5555/5 - 5)$
:= $666 + 6 \times 6 \times (6 \times (6 \times 6 + 6) + 6)$
:= $7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) + 7)))$
:= $((8 - (8 + 8)/8) + 8) \times ((8 \times 88 - 8/8) + 8)$
:= $9 \times (9 + 9) + (99 \times 99 - 9)$
- 9955 := $11 \times (1 + (1 + ((1 + 1)^{11-1} - 11^{1+1})))$
:= $22/2 + (2 \times (22 \times (222 + 2 + 2)))$
:= $3 \times 3333 - (33/3 + 33)$
:= $((44 - 4)/4)^4 - (44 + 4/4)$
:= $5 + (((5 + 5)^{5-5/5}) - 55) + 5$
:= $(6 - 6/6) \times (66 \times (6 \times 6 - 6) + (66/6))$
:= $7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) + 7/7)$
:= $88/8 \times ((888 + 8/8 + 8) + 8)$
:= $9/9 + ((99 \times 99 - 9) + 9 \times (9 + 9))$
- 9956 := $((11 - 1)^{1+1+1+1}) - ((1 + 1) \times (11 + 11))$
:= $(2 \times (2 + 2) + 2)^{2+2} - (2 \times 22)$
:= $(3 \times (3333 - 3)) - 3/3 - 33$
:= $((44 - 4)/4)^4 - 44$
:= $5^5 + (55/5 \times ((5^5 + 5)/5 - 5))$
:= $6 + ((6 \times 6 - 66/6) \times (((6 + 6)/6) + 6 \times 66))$
:= $7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) + ((7 + 7)/7))$
:= $(88/8 + 8) \times (((88 + 8)/8) + 8 \times 8 \times 8)$
:= $(9 + 9)/9 + ((99 \times 99 - 9) + 9 \times (9 + 9))$
- 9957 := $(1 + 1 + 1) \times (((1 + 1 + 1) \times (1111 - 1)) - 11)$
:= $2/2 + ((2 \times (2 + 2) + 2)^{2+2} - (2 \times 22))$
:= $(3 \times (3333 - 3)) - 33$
:= $4/4 + (((44 - 4)/4)^4 - 44)$
:= $5 + ((55/5 + 5) \times ((5^5 + 5 + 5)/5 - 5))$
:= $(6^{6-6/6}) + ((66 \times 66 + 6)/(6 + 6)/6)$
:= $7777 + (((7 + 7 + 7)/7)^7 - 7)$
:= $(88 + 8) \times (88 + 8 + 8) - (88/8 + 8 + 8)$
:= $9999 - ((99/(9 + 9 + 9)/9) + 9)$

- 9958 := $1 + ((1 + 1 + 1) \times (((1 + 1 + 1) \times (1111 - 1)) - 11))$
:= $2 + ((2 \times (2 + 2) + 2)^{2+2} - (2 \times 22))$
:= $3/3 + ((3 \times (3333 - 3)) - 33)$
:= $(4 + 4)/4 + (((44 - 4)/4)^4 - 44)$
:= $((5 + 5)^{5-5/5}) - (((5 + 5)/5)^5 + 5)$
:= $((66 - 6)/6)^{6-(6+6)/6} - (6 \times 6 + 6)$
:= $77/7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) + 7)))$
:= $88 + ((8 - 8/8) \times (88 \times (8 + 8) + ((8 + 8)/8)))$
:= $9999 - ((9 \times 9 \times 9 + 9)/(9 + 9))$
- 9959 := $(1 + (11 + 11)) \times (1 + ((1 + 1 + 1) \times (1 + 11)^{1+1}))$
:= $(22 + 2/2) \times (2 \times 222 - 22/2)$
:= $((3^3 + 3) \times (333 - 3/3)) - 3/3$
:= $4 + (((44 - 4)/4)^4 - (44 + 4/4))$
:= $((55/5 + 5) \times (5^5 - 5)/5) - 5 \times 5$
:= $((66/6 + 6) + 6) \times ((6 \times (66 + 6)) + 6/6)$
:= $(77 + 7)/7 + (7 \times (7 \times ((7 + 7) \times (7 + 7) + 7)))$
:= $88 + (((8/8 + 88) \times 888/8) - 8)$
:= $9999 + ((9 - 9 \times 9)/9 + 9)$
- 9960 := $(11 - 1) \times ((1 + 1 + 1) \times ((1 + 1 + 1) \times 111 - 1))$
:= $(2 - 22) \times (2 - (2^{2+2} + 22^2))$
:= $(3^3 + 3) \times (333 - 3/3)$
:= $4 + (((44 - 4)/4)^4 - 44)$
:= $(55 + 5) \times (555/5 + 55)$
:= $66 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) - 6)$
:= $7 + (((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) - 7/7) + 7)$
:= $8 + ((88 \times ((888 + 8 + 8)/8)) + 8)$
:= $(9/9 + 9) \times (999 - ((9 + 9 + 9)/9))$
- 9961 := $((11 - 1 - 1) \times (1111 - (1 + 1 + 1))) - 11$
:= $((2/2 + 2)^{2+2} \times ((22/2)^2 + 2)) - 2$
:= $3/3 + ((3^3 + 3) \times (333 - 3/3))$
:= $4 + (((44 - 4)/4)^4 - 44) + 4/4$
:= $((55/5 + 5) \times (5^5 + 5)/5) - 55$
:= $6 + ((6 - 6/6) \times (66 \times (6 \times 6 - 6) + (66/6)))$
:= $7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) + 7)$
:= $(8 - 8/8) \times (((88 \times (8 + 8) - 8/8) + 8) + 8)$
:= $9 \times (9 + 9) + (99 \times 99 - ((9 + 9)/9))$
- 9962 := $((11 - 1 - 1) \times (1111 - (1 + 1 + 1 + 1))) - 1$
:= $2 + ((2 \times (2 + 2) + 2)^{2+2} + (2 \times (2 - 22)))$
:= $3 \times 3333 - (3/3 + 33 + 3)$
:= $4 + (((44 - 4)/4)^4 - 44) + (4 + 4)/4$
:= $5 + (((55/5 + 5) \times ((5^5 + 5 + 5)/5 - 5)) + 5)$
:= $6 + (((6 \times 6 - 66/6) \times (((6 + 6)/6) + 6 \times 66)) + 6)$
:= $7 + (((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) + 7/7) + 7)$
:= $8 + (((8 - (8 + 8)/8) + 8) \times ((8 \times 88 - 8/8) + 8))$
:= $9 \times (9 + 9) + (99 \times 99 - 9/9)$
- 9963 := $(11 - 1 - 1) \times (1111 - (1 + 1 + 1 + 1))$
:= $(2/2 + 2)^{2+2} \times ((22/2)^2 + 2)$
:= $3 \times (3333 - (3 \times 3 + 3))$
:= $(4/4 + 4 + 4) \times (4444/4 - 4)$
:= $((5 + 5)^{5-5/5}) - (((5 + 5)/5)^5 + 5)$
:= $(6^{6-6/6}) + ((6 \times 6/(6 + 6))^{6/6+6})$
:= $7777 + (((7 + 7 + 7)/7)^7 - 7/7)$
:= $8 + (88/8 \times ((888 + 8/8 + 8) + 8))$
:= $9 \times (999 + 99 + 9)$
- 9964 := $1 + ((11 - 1 - 1) \times (1111 - (1 + 1 + 1 + 1)))$
:= $2222 + ((2 \times 2 \times 22)^2 - 2)$
:= $3/3 + (3 \times (3333 - (3 \times 3 + 3)))$
:= $4 + (((44 - 4)/4)^4 - 44) + 4$
:= $((5 + 5)^{5-5/5}) - (55/5 + 5 \times 5)$
:= $((66 - 6)/6)^{6-(6+6)/6} - 6 \times 6$
:= $7777 + ((7 + 7 + 7)/7)^7$
:= $8 + ((88/8 + 8) \times (((88 + 8)/8) + 8 \times 8 \times 8))$
:= $9/9 + (99 \times 99 + 9 \times (9 + 9))$
- 9965 := $((1 + 1 + 1) \times (((1 + 1 + 1) \times 1111) - 11)) - 1$
:= $2 + ((2/2 + 2)^{2+2} \times ((22/2)^2 + 2))$
:= $3 \times 3333 - 3/3 - 33$
:= $4 + (((44 - 4)/4)^4 - 44) + 4/4 + 4$
:= $5 \times (((5 + 5)/5)^{55/5}) - 55$
:= $66 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) - 6/6)$
:= $7 + ((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) + (77/7))$
:= $(88 + 8) \times (88 + 8 + 8) - (88/8 + 8)$
:= $(9 + 9)/9 + (99 \times 99 + 9 \times (9 + 9))$
- 9966 := $(1 + 1 + 1) \times (((1 + 1 + 1) \times 1111) - 11)$
:= $2222 + (2 \times 2 \times 22)^2$
:= $3 \times 3333 - 33$
:= $(44 - 4)/4 + (((44 - 4)/4)^4 - 44)$
:= $5 + (((55/5 + 5) \times (5^5 + 5)/5) - 55)$
:= $66 + (66 \times ((6 + 6) \times (6 + 6) + 6))$
:= $(777 - 7)/7 + (77 \times ((7 + 7)/7)^7)$
:= $88/8 \times (((888 + ((8 + 8)/8)) + 8) + 8)$
:= $9999 - (99/((9 + 9 + 9)/9))$
- 9967 := $((11 - 1)^{1+1+1+1}) - (11 \times (1 + 1 + 1))$
:= $2/2 + ((2 \times 2 \times 22)^2 + 2222)$
:= $3/3 + (3 \times 3333 - 33)$
:= $44/4 + (((44 - 4)/4)^4 - 44)$
:= $5^5 + (55/5 \times ((5^5 + 5 + 5)/5 - 5))$
:= $66 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) + 6/6)$
:= $777/7 + (77 \times ((7 + 7)/7)^7)$
:= $88 + ((8/8 + 88) \times 888/8)$
:= $9 + (9999 - ((9 \times 9 \times 9 + 9)/(9 + 9)))$
- 9968 := $(1 + 111) \times (111 - 11 - 11)$
:= $2 + ((2 \times 2 \times 22)^2 + 2222)$
:= $3 + (3 \times 3333 - (3/3 + 33))$
:= $4 \times (4^4 \times (4 + 4) + 444)$
:= $(55/5 + 5) \times (5^5 - 5 - 5)/5$
:= $66 + ((66 \times ((6 + 6) \times (6 + 6) + 6)) + ((6 + 6)/6))$
:= $7 + (((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) + 7) + 7)$
:= $(8 + 8) \times (888/8 + 8 \times 8 \times 8)$
:= $9999 - (((99 + 99)/9) + 9)$
- 9969 := $1 + ((1 + 111) \times (111 - 11 - 11))$
:= $2^{22/2} + ((2 \times 2 \times 22 + 2/2)^2)$
:= $3 + (3 \times 3333 - 33)$
:= $4/4 + (4 \times (4^4 \times (4 + 4) + 444))$
:= $((5 + 5)^{5-5/5}) - ((5 \times 5 + 5)/5 + 5)$
:= $6 + (((6 \times 6/(6 + 6))^{6/6+6}) + (6^{6-6/6}))$
:= $7 + (((7 \times (7 \times ((7 + 7) \times (7 + 7) + 7))) + 7/7) + 7) + 7$
:= $8/8 + ((8 + 8) \times (888/8 + 8 \times 8 \times 8))$
:= $9 \times 9 + (9999 - 999/9)$
- 9970 := $(11 - 1) \times ((11 - 1)^{1+1+1} - (1 + 1 + 1))$
:= $2 + (((2 \times 2 \times 22)^2 + 2222) + 2)$
:= $3 + ((3 \times 3333 - 33) + 3/3)$
:= $(4 + 4)/4 + (4 \times (4^4 \times (4 + 4) + 444))$
:= $((5 + 5)^{5-5/5}) - (5 \times 5 + 5)$
:= $6 + (((66 - 6)/6)^{6-(6+6)/6} - 6 \times 6)$
:= $((7 + 7)/7)^7 \times (7/7 + 77) - (7 + 7)$
:= $(8 + 8)/8 + ((8 + 8) \times (888/8 + 8 \times 8 \times 8))$
:= $(9/9 + 9) \times (999 - ((9 + 9)/9))$
- 9971 := $((11 - 1 - 1) \times (1111 - (1 + 1 + 1))) - 1$
:= $2 + (((2 \times 2 \times 22 + 2/2)^2) + 2^{22/2})$
:= $3 \times 3333 - (3^3 + 3/3)$
:= $4 + (((44 - 4)/4)^4 - 44) + 44/4$
:= $5/5 + (((5 + 5)^{5-5/5}) - (5 \times 5 + 5))$
:= $(6 \times ((6 \times (6 \times 6 \times 6 - 6 + 66)) + 6)) - 6/6$
:= $7 + (((7 + 7 + 7)/7)^7 + 7777)$
:= $(88 + 8 + 8)/8 \times (8 \times (88 + 8) - 8/8)$
:= $9999 - ((9/9 + 9 + 9) + 9)$
- 9972 := $(11 - 1 - 1) \times (1111 - (1 + 1 + 1))$
:= $(2^{2+2} + 2) \times (((22 + 2)^2) - 22)$
:= $3 \times (3333 - 3 \times 3)$
:= $4 + (4 \times (4^4 \times (4 + 4) + 444))$
:= $(5 + 5)/5 + (((5 + 5)^{5-5/5}) - (5 \times 5 + 5))$
:= $6 \times ((6 \times (6 \times 6 \times 6 - 6 + 66)) + 6)$
:= $(77/7 + 7) \times (((7 \times 77 + 7/7) + 7) + 7)$
:= $(8/8 + 8) \times (((8888 - 88)/8) + 8)$
:= $9999 - (9 + 9 + 9)$

$$\begin{aligned}
\blacktriangleright 9973 &:= 1 + ((11 - 1 - 1) \times (1111 - (1 + 1 + 1))) \\
&:= 2/2 + ((2^{2+2} + 2) \times (((22 + 2)^2) - 22)) \\
&:= 3/3 + (3 \times (3333 - 3 \times 3)) \\
&:= ((44 - 4)/4)^4 - (44/4 + 4 \times 4) \\
&:= 5 + ((55/5 + 5) \times (5^5 - 5 - 5)/5) \\
&:= 6/6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6 + 66)) + 6)) \\
&:= (777 \times (7 - 7/7 + 7)) - ((7 + 7)/7)^7 \\
&:= (88 + 8) \times (88 + 8 + 8) - 88/8 \\
&:= 9/9 + (9999 - (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9974 &:= 1 + (1 + ((11 - 1 - 1) \times (1111 - (1 + 1 + 1)))) \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 22 - 2 - 2 \\
&:= 3 + (3 \times 3333 - (3^3 + 3/3)) \\
&:= (4 - 44)/4 + (4 \times ((4 \times (4/4 + 4)^4) - 4)) \\
&:= ((5 + 5)^{5-5/5}) - (5 \times 5 + 5/5) \\
&:= (6 + 6)/6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6 + 66)) + 6)) \\
&:= 7 + ((77 \times ((7 + 7)/7)^7) + 777/7) \\
&:= (8 - 88)/8 + (88 + 8) \times (88 + 8 + 8) \\
&:= (9 + 9)/9 + (9999 - (9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9975 &:= (1 + 1 + 1) \times (((1 + 1 + 1) \times (1 + 1111)) - 11) \\
&:= (2/2 - 22) \times (22/2 - (22^2 + 2)) \\
&:= 3 + (3 \times (3333 - 3 \times 3)) \\
&:= (44/4 + 4) \times (((4/4 + 4)^4 - 4) + 44) \\
&:= ((5 + 5)^{5-5/5}) - 5 \times 5 \\
&:= (6 - 6/6) \times ((6 \times 666 - 6)/(6 + 6)/6) \\
&:= 77 + (7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) - 7)) \\
&:= (88 + 8) \times (88 + 8 + 8) - (8/8 + 8) \\
&:= 9 + (9999 - 99/(9 + 9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9976 &:= ((11 - 1)^{1+1+1+1}) - ((1 + 1) \times (1 + 11)) \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 22 - 2 \\
&:= 3 + ((3 \times (3333 - 3 \times 3)) + 3/3) \\
&:= ((44 - 4)/4)^4 - ((4 \times 4 + 4) + 4) \\
&:= 5/5 + (((5 + 5)^{5-5/5}) - 5 \times 5) \\
&:= 6 + (((66 - 6)/6)^{6-(6+6)/6}) - 6 \times 6 + 6 \\
&:= (7 \times 7 \times 7 + 7/7) \times ((7/7 + 7 + 7 + 7) + 7) \\
&:= (88 + 8) \times (88 + 8 + 8) - 8 \\
&:= 9999 - (99 + 99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9977 &:= ((11 - 1)^{1+1+1+1}) - (1 + (11 + 11)) \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 22 - 2/2 \\
&:= 33/3 + (3 \times 3333 - 33) \\
&:= 44 \times (4^4 - 4) - 4444/4 \\
&:= (5 + 5)/5 + (((5 + 5)^{5-5/5}) - 5 \times 5) \\
&:= 6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6 + 66)) + 6)) - 6/6) \\
&:= (((7 + 7)/7)^7 \times (7/7 + 77)) - 7 \\
&:= 8/8 + ((88 + 8) \times (88 + 8 + 8) - 8) \\
&:= 9999 - ((99 + 99)/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9978 &:= ((11 - 1)^{1+1+1+1}) - 11 - 11 \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 22 \\
&:= (3 \times (3333 - (3 + 3))) - 3 \\
&:= ((44 - 4)/4)^4 - (44/((4 + 4)/4)) \\
&:= 5^5 + (55/5 \times (5^5 - 5 - 5)/5) \\
&:= 6 + (6 \times ((6 \times (6 \times 6 \times 6 - 6 + 66)) + 6)) \\
&:= 7 + (((7 + 7 + 7)/7)^7 + 7777 + 7) \\
&:= (8 + 8)/8 + ((88 + 8) \times (88 + 8 + 8) - 8) \\
&:= 9999 - ((99 + 9)/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9979 &:= ((11 - 1 - 1) \times (1111 - 1)) - 11 \\
&:= 2/2 + ((2 \times (2 + 2) + 2)^{2+2} - 22) \\
&:= (3 \times (3333 - 3)) - 33/3 \\
&:= ((44 - 4)/4)^4 - ((4 \times 4 + 4/4) + 4) \\
&:= ((55/5 + 5) \times (5^5 - 5)/5) - 5 \\
&:= 6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6 + 66)) + 6)) + 6/6) \\
&:= ((77 - 7)/7 + 7) \times (7 \times (77 + 7) - 7/7) \\
&:= (8/8 + 8 + 8) \times (8 \times (8 \times 8 + 8) + (88/8)) \\
&:= 9999 - (99/9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9980 &:= (11 - 1) \times ((11 - 1)^{1+1+1} - (1 + 1)) \\
&:= 2 + ((2 \times (2 + 2) + 2)^{2+2} - 22) \\
&:= (3 \times (3333 - (3 + 3))) - 3/3 \\
&:= ((44 - 4)/4)^4 - 4 \times 4 - 4 \\
&:= 5 + (((5 + 5)^{5-5/5}) - 5 \times 5) \\
&:= 6 + ((6 \times ((6 \times (6 \times 6 \times 6 - 6 + 66)) + 6)) + ((6 + 6)/6)) \\
&:= 7 + ((777 \times (7 - 7/7 + 7)) - ((7 + 7)/7)^7) \\
&:= (88 + 8) \times (88 + 8 + 8) - 8 \times 8/(8 + 8) \\
&:= (9/9 + 9) \times (999 - 9/9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9981 &:= (11 - 1 - 1) \times (1111 - (1 + 1)) \\
&:= (2/2 + 2)^2 \times ((2222/2) - 2) \\
&:= 3 \times (3333 - (3 + 3)) \\
&:= 4/4 + (((44 - 4)/4)^4 - (4 \times 4 + 4)) \\
&:= 5 + (((5 + 5)^{5-5/5}) - 5 \times 5) + 5/5 \\
&:= 6 + ((6 - 6/6) \times ((6 \times 666 - 6)/(6 + 6)/6)) \\
&:= ((7 + 7)/7 + 7) \times ((7777 - 7 - 7)/7) \\
&:= (8/8 + 8) \times ((8888 - (8 + 8))/8) \\
&:= 9999 - (9 + 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9982 &:= 1 + ((11 - 1 - 1) \times (1111 - (1 + 1))) \\
&:= 2 + (((2 \times (2 + 2) + 2)^{2+2} - 22) + 2) \\
&:= 3/3 + (3 \times (3333 - (3 + 3))) \\
&:= ((44 - 4)/4)^4 - ((4 + 4)/4 + 4 \times 4) \\
&:= 5 + (((5 + 5)^{5-5/5}) - 5 \times 5) + ((5 + 5)/5) \\
&:= (6 \times 6 \times 6 + 6/6) \times (((66 - 6)/6) + 6 \times 6) \\
&:= 77 + ((77 \times ((7 + 7)/7)^7) + 7 \times 7) \\
&:= (88 + 8) \times (88 + 8 + 8) - (8 + 8)/8 \\
&:= 9/9 + (9999 - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9983 &:= 1 + (1 + ((11 - 1 - 1) \times (1111 - (1 + 1)))) \\
&:= 2 + ((2/2 + 2)^2 \times ((2222/2) - 2)) \\
&:= 3 + ((3 \times (3333 - (3 + 3))) - 3/3) \\
&:= ((44 - 4)/4)^4 - (4 \times 4 + 4/4) \\
&:= ((5 + 5)^{5-5/5}) - (((55 + 5)/5) + 5) \\
&:= (66 + 6/6) \times (((6 + 6) \times (6 + 6) - 6/6) + 6) \\
&:= (((7 + 7)/7)^7 \times (7/7 + 77)) - 7/7 \\
&:= (88 + 8) \times (88 + 8 + 8) - 8/8 \\
&:= (9 + 9)/9 + (9999 - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9984 &:= (11 \times (1 + 1)^{11}) - ((1 + 111)^{1+1}) \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 2^{2+2} \\
&:= 3 + (3 \times (3333 - (3 + 3))) \\
&:= 4 \times ((4 \times (4/4 + 4)^4) - 4) \\
&:= (55/5 + 5) \times (5^5 - 5)/5 \\
&:= (6 + 6) \times ((6/6 + 6 + 6) \times ((6 + 6)/6)^6) \\
&:= ((7 + 7)/7)^7 \times (7/7 + 77) \\
&:= (88 + 8) \times (88 + 8 + 8) \\
&:= 9999 + (((9 + 9 + 9)/9) - (9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9985 &:= 1 + ((11 \times (1 + 1)^{11}) - ((1 + 111)^{1+1})) \\
&:= 2/2 + ((2 \times (2 + 2) + 2)^{2+2} - 2^{2+2}) \\
&:= 3 \times 3333 - (33/3 + 3) \\
&:= 4/4 + (4 \times ((4 \times (4/4 + 4)^4) - 4)) \\
&:= ((5 + 5)^{5-5/5}) - (5 + 5 + 5) \\
&:= 6/6 + ((6 + 6) \times ((6/6 + 6 + 6) \times ((6 + 6)/6)^6)) \\
&:= 7/7 + (((7 + 7)/7)^7 \times (7/7 + 77)) \\
&:= 8/8 + (88 + 8) \times (88 + 8 + 8) \\
&:= 9999 + (((9 - 99)/(9 + 9)) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9986 &:= ((11 - 1)^{1+1+1+1}) - 1 - 1 - 1 - 11 \\
&:= 2 + ((2 \times (2 + 2) + 2)^{2+2} - 2^{2+2}) \\
&:= (3 \times (3333 - 3)) - (3/3 + 3) \\
&:= (4 + 4)/4 + (4 \times ((4 \times (4/4 + 4)^4) - 4)) \\
&:= 5/5 + (((5 + 5)^{5-5/5}) - (5 + 5 + 5)) \\
&:= 6 \times 6 + ((6 \times 6 - 66/6) \times (((6 + 6)/6) + 6 \times 66)) \\
&:= (((77 - 7)/7)^{7/7-7}) - (7 + 7) \\
&:= (8 + 8)/8 + (88 + 8) \times (88 + 8 + 8) \\
&:= 9999 - (99 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9987 &:= ((11 - 1)^{1+1+1+1}) - 1 - 1 - 11 \\
&:= (2 \times (2 + 2) + 2)^{2+2} - (22/2 + 2) \\
&:= (3 \times (3333 - 3)) - 3 \\
&:= 4 + (((44 - 4)/4)^4 - (4 \times 4 + 4/4)) \\
&:= ((5 + 5)^{5-5/5}) - (55 + 5 + 5)/5 \\
&:= (6 \times 6/(6 + 6)) \times ((6 - 6/6) \times 666 - 6/6) \\
&:= 7/7 + (((77 - 7)/7)^{7/7-7}) - (7 + 7) \\
&:= 88/8 + ((88 + 8) \times (88 + 8 + 8) - 8) \\
&:= 9999 - (99 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9988 &:= ((11-1)^{1+1+1+1}) - 1 - 11 \\
&:= 22 \times ((2 \times (222 + 2 + 2)) + 2) \\
&:= 3 \times 3333 - 33/3 \\
&:= 4 + (4 \times ((4 \times (4/4 + 4)^4) - 4)) \\
&:= (5 + 5)^{5-5/5} - (55 + 5)/5 \\
&:= (((66 - 6)/6)^{6-(6+6)/6}) - 6 - 6 \\
&:= (7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) + 7)) - (7/7 + 7) \\
&:= 88/8 \times (((88 + 8)/8) + 888) + 8) \\
&:= 9999 - 99/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9989 &:= ((11-1)^{1+1+1+1}) - 11 \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 22/2 \\
&:= (3 \times (3333 - 3)) - 3/3 \\
&:= ((44 - 4)/4)^4 - 44/4 \\
&:= (5 + 5)^{5-5/5} - 55/5 \\
&:= (((66 - 6)/6)^{6-(6+6)/6}) - 66/6 \\
&:= (7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) + 7)) - 7 \\
&:= 8 + ((8/8 + 8) \times ((8888 - (8 + 8))/8)) \\
&:= 9999 - 9/9 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9990 &:= (11 - 1 - 1) \times (1111 - 1) \\
&:= 222 \times (2 \times 22 + 2/2) \\
&:= 3 \times (3333 - 3) \\
&:= (4 - 44)/4 + ((44 - 4)/4)^4 \\
&:= (5 + 5)^{5-5/5} - 5 - 5 \\
&:= 666 \times ((6 \times 6/(6 + 6) + 6) + 6) \\
&:= ((7 + 7)/7 + 7) \times (7777 - 7)/7 \\
&:= (8/8 + 8) \times (8888 - 8)/8 \\
&:= 9999 - 9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9991 &:= 1 + ((11 - 1 - 1) \times (1111 - 1)) \\
&:= 2 + ((2 \times (2 + 2) + 2)^{2+2} - 22/2) \\
&:= 3/3 + (3 \times (3333 - 3)) \\
&:= ((44 - 4)/4)^4 - (4/4 + 4 + 4) \\
&:= 5/5 + (((5 + 5)^{5-5/5}) - (5 + 5)) \\
&:= 6/6 + (666 \times ((6 \times 6/(6 + 6) + 6) + 6)) \\
&:= 7 + (((7 + 7)/7)^7 \times (7/7 + 77)) \\
&:= ((8/8 + 8) \times 8888/8) - 8 \\
&:= 9/9 + (9999 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9992 &:= 1 + (1 + ((11 - 1 - 1) \times (1111 - 1))) \\
&:= 2 + (222 \times (2 \times 22 + 2/2)) \\
&:= 3 + ((3 \times (3333 - 3)) - 3/3) \\
&:= ((44 - 4)/4)^4 - 4 - 4 \\
&:= (5 + 5)/5 + (((5 + 5)^{5-5/5}) - (5 + 5)) \\
&:= (6 + 6)/6 + (666 \times ((6 \times 6/(6 + 6) + 6) + 6)) \\
&:= (((7 + 7)/7 + 7) \times 7777/7) - 7 \\
&:= 8 + (88 + 8) \times (88 + 8 + 8) \\
&:= (9 + 9)/9 + (9999 - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9993 &:= 1 + (1 + (1 + ((11 - 1 - 1) \times (1111 - 1)))) \\
&:= 2 + (((2 \times (2 + 2) + 2)^{2+2} - 22/2) + 2) \\
&:= 3 + (3 \times (3333 - 3)) \\
&:= 4 + (((44 - 4)/4)^4 - 44/4) \\
&:= ((5 + 5)^{5-5/5}) - ((5 + 5)/5 + 5) \\
&:= (((66 - 6)/6)^{6-(6+6)/6}) - 6/6 - 6 \\
&:= (((77 - 7)/7)^{77/7-7}) - 7 \\
&:= 8 + ((88 + 8) \times (88 + 8 + 8) + 8/8) \\
&:= 9999 + (((9 + 9 + 9)/9) - 9)
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9994 &:= ((11-1)^{1+1+1+1}) - ((1+1) \times (1+1+1)) \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 2 - 2 - 2 \\
&:= 3 + ((3 \times (3333 - 3)) + 3/3) \\
&:= ((44 - 4)/4)^4 - ((4 + 4)/4 + 4) \\
&:= (5 + 5)^{5-5/5} - (5/5 + 5) \\
&:= (((66 - 6)/6)^{6-(6+6)/6}) - 6 \\
&:= 7/7 + (((77 - 7)/7)^{77/7-7}) - 7 \\
&:= 8 + ((88 + 8) \times (88 + 8 + 8) + ((8 + 8)/8)) \\
&:= 9999 + ((9 - 99)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9995 &:= ((11-1)^{1+1+1+1}) - 1 - 1 - 1 - 1 - 1 \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 2/2 - 2 - 2 \\
&:= 3 \times 3333 - (3/3 + 3) \\
&:= ((44 - 4)/4)^4 - 4/4 - 4 \\
&:= (5 + 5)^{5-5/5} - 5 \\
&:= 6/6 + (((66 - 6)/6)^{6-(6+6)/6}) - 6 \\
&:= (7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) + 7)) - 7/7 \\
&:= 88/8 + (88 + 8) \times (88 + 8 + 8) \\
&:= 9999 + ((9 - 9 \times 9)/(9 + 9))
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9996 &:= (1 + 1 + 1) \times (((1 + 1 + 1) \times 1111) - 1) \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 2 - 2 \\
&:= 3 \times 3333 - 3 \\
&:= ((44 - 4)/4)^4 - 4 \\
&:= 5/5 + (((5 + 5)^{5-5/5}) - 5) \\
&:= 6 + (666 \times ((6 \times 6/(6 + 6) + 6) + 6)) \\
&:= 7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) + 7) \\
&:= ((88 + 8)/8) + (88 + 8) \times (88 + 8 + 8) \\
&:= 9999 - (9 + 9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9997 &:= ((11-1)^{1+1+1+1}) - 1 - 1 - 1 \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 2/2 - 2 \\
&:= 3/3 + (3 \times 3333 - 3) \\
&:= 4/4 + (((44 - 4)/4)^4 - 4) \\
&:= (5 + 5)/5 + (((5 + 5)^{5-5/5}) - 5) \\
&:= 6 + ((666 \times ((6 \times 6/(6 + 6) + 6) + 6)) + 6/6) \\
&:= 7/7 + (7 \times ((7 \times ((7 + 7) \times (7 + 7) + 7)) + 7)) \\
&:= 8888 + ((8888 - (8 + 8))/8) \\
&:= 9999 - (9 + 9)/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9998 &:= ((11-1)^{1+1+1+1}) - 1 - 1 \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 2 \\
&:= 3 \times 3333 - 3/3 \\
&:= ((44 - 4)/4)^4 - (4 + 4)/4 \\
&:= ((5 + 5)^{5-5/5}) - (5 + 5)/5 \\
&:= (((66 - 6)/6)^{6-(6+6)/6}) - (6 + 6)/6 \\
&:= 7 + (((7 + 7)/7)^7 \times (7/7 + 77)) + 7) \\
&:= 8 + ((8/8 + 8) \times (8888 - 8)/8) \\
&:= 9999 - 9/9
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 9999 &:= (11 - 1 - 1) \times 1111 \\
&:= (2 \times (2 + 2) + 2)^{2+2} - 2/2 \\
&:= 3 \times 3333 \\
&:= ((44 - 4)/4)^4 - 4/4 \\
&:= (5 + 5)^{5-5/5} - 5/5 \\
&:= (6 \times 6/(6 + 6) + 6) \times (6666/6) \\
&:= ((7 + 7)/7 + 7) \times 7777/7 \\
&:= (8/8 + 8) \times 8888/8 \\
&:= 9999
\end{aligned}$$

$$\begin{aligned}
\blacktriangleright 10000 &:= (11-1)^{1+1+1+1} \\
&:= (2 \times (2 + 2) + 2)^{2+2} \\
&:= 3/3 + 3 \times 3333 \\
&:= ((44 - 4)/4)^4 \\
&:= (5 + 5)^{5-5/5} \\
&:= (((66 - 6)/6)^{6-(6+6)/6}) \\
&:= (((77 - 7)/7)^{77/7-7}) \\
&:= (((8 + 8)/8) + 8)^{8 \times 8/(8+8)} \\
&:= 9/9 + 9999
\end{aligned}$$

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