MISSION SSC

MATHS

SIMPLIFICATION

LIVE 05:00 PM

Simplification

1. $2\sqrt{3} \times 3\sqrt{8} \times 2\sqrt{27} \times 2\sqrt{2} = 2^4 \times X$

a. 18
b. 54
c. 9
d. NOT

2. $\frac{7}{3}\ of\ \frac{5}{4}\ of\ \frac{1}{9}0f3024 = x$

(a)920
(b)940
(c)960
(d)not

3. $3\frac{1}{3} - x \times \frac{3^2}{2^3} = 2\frac{5}{6}$

(a)2/3
(b)2/9
(c)4/9
(d) 9/4

4. $8^2 \times 1024^2 = 2^x \times 2^6 \times 512^2$

(a)2
(b)4
(c)8
(d16

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1

$1260 \div 15 \div 7 \div 6 = ?$

1)2
2) 58
3) 122
4) 588

2 If 45 – [28 – {37 – (15 - *)}]= 68, then * is equal to :

(1) 20

(2) 25

(3) none

(4) 18

3 Which of the following will come in place of both the question marks in the following equation?

$$\frac{128 \div 16 \times ? - 7 \times 2}{7^2 - 8 \times 6 + ?^2} = 1$$

निम्नलिखित में से कौन सा निम्नलिखित समीकरण में प्रश्न चिह्न दोनों के स्थान पर आएगा?

$$\frac{128 \div 16 \times ? - 7 \times 2}{7^2 - 8 \times 6 + ?^2} = 1$$

(1) 3
(2) 14
(3) 16
(4) 17

4

Simplify: $18 - [9 - \{6 + 2(7 - \overline{8 - 5})\}]$.

(1) 13
(2) 15
(3) 23
(4) 32

When simplified, the product $\left(1-\frac{1}{2}\right)\left(1-\frac{1}{3}\right)\left(1-\frac{1}{4}\right).....\left(1-\frac{1}{n}\right)$ gives.

जब सरलीकृत किया जाता है, तो $\left(1-\frac{1}{2}\right)\left(1-\frac{1}{3}\right)\left(1-\right.$

(1) $\frac{1}{n}$

(2) $\frac{2}{n}$

(3) $\frac{2\,(n-1)}{n}$

(4) $\frac{2}{n\,(n+1)}$

6

$$\frac{3}{4}\left(1+\frac{1}{3}\right)\left(1+\frac{2}{3}\right)\left(1-\frac{2}{5}\right)\left(1+\frac{6}{7}\right)\left(1-\frac{12}{13}\right) = ?$$

(1) $\frac{1}{5}$

(2) $\frac{1}{6}$

(3) $\frac{1}{7}$

(4) NOT

7

The value of $9999\ \frac{9995}{9999} \times 9999$ is:

मान ज्ञात करे

(1) 9908096
(2) 9998996
(3) 9989996
(4) 9998246

8

$\left(777\ \frac{1}{7}+777\ \frac{2}{7}+777\ \frac{3}{7}+777\ \frac{4}{7}+777\ \frac{5}{7}+777\ \frac{6}{7}\ \right)$ is simplified to:

(1) 2997
(2) 5979
(3) 5994
(4) 4665

9 The value of $1 \div [1 + 1 \div \{1 + 1 \div (1 + 1 \div 2)\}]$ is :

(1) $\frac{1}{2}$

(2) $\frac{5}{8}$

(3) 1

(4) 2

10

$1+\frac{1}{2}+\frac{1}{4}+\frac{1}{7}+\frac{1}{14}+\frac{1}{28}$ is equal to :

$1+\frac{1}{2}+\frac{1}{4}+\frac{1}{7}+\frac{1}{14}+\frac{1}{28}$ के बराबर है

(1) 2
(2) 2.5
(3) 3
(4) 3.5

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11 $1 + \frac{3}{4} + 5\frac{1}{3} + 3\frac{2}{5} = ?$

(1) $10\frac{29}{60}$

(2) $9\frac{29}{60}$

(3) $9\frac{2}{5}$

(4) $10\frac{39}{60}$

12 $5 - \left[\frac{3}{4} + \left\{2\frac{1}{2} - \left(0.5 + \overline{\frac{1}{6} - \frac{1}{7}}\right)\right\}\right]$

(1) $1\frac{19}{84}$

(2) $2\frac{61}{84}$

(3) $2\frac{23}{84}$

(4) $2\frac{47}{84}$

13 $\dfrac{1}{2+\dfrac{1}{2+\dfrac{1}{2-\frac{1}{2}}}}$

(1) $\frac{3}{8}$

(2) $\frac{19}{8}$

(3) $\frac{8}{3}$

(4) $\frac{8}{19}$

14 $\frac{3}{5}$ of $\frac{4}{7}$ of $\frac{5}{9}$ of $\frac{21}{24}$ of 504 = ?

(1) 63
(2) 69
(3) 96
(4) 84

15 $\frac{3}{8}$ of 168 × 15 ÷ 5 + ? = 549 ÷ 9 + 235

(1) 107
(2) 174
(3) 1
(4) 296

16

Find the value of * in the following :

$1\frac{2}{3} \div \frac{2}{7} \times \frac{*}{7} = 1\frac{1}{4} \times \frac{2}{3} \div \frac{1}{6}$

(1) 0.006
(2) $\frac{1}{6}$
(3) 0.6
(4) 6

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17 $9 - 1\frac{2}{9}$ of $3\frac{3}{11} \div 5\frac{1}{7}$ of $\frac{7}{9}$ = ?

(1) $\frac{7}{6}$

(2) 9

(3) 1

(4) 8

18 Simplify : $\dfrac{\frac{1}{3}+\frac{3}{4}\left(\frac{2}{5}-\frac{1}{3}\right)}{1\frac{2}{3}\ of\ \frac{3}{4}-\frac{1}{4}\ of\ \frac{4}{5}}$

(1) $\frac{1}{63}$

(2) $\frac{23}{40}$

(3) $\frac{23}{55}$

(4) $\frac{23}{63}$

19 $\dfrac{\frac{1}{2} \div \frac{1}{2} of \frac{1}{2}}{\frac{1}{2} + \frac{1}{2} of \frac{1}{2}}$

(1) 1

(2) $1\frac{1}{3}$

(3) $2\frac{2}{3}$

(4) 3

20 If $\frac{a}{b} = \frac{4}{3}$, then the value of $\frac{6a+4b}{6a-5b}$ is :

यदि $\frac{a}{b} = \frac{4}{3}$, तो $\frac{6a+4b}{6a-5b}$ का मान है:

(1) 4
(2) 1
(3) $1\frac{1}{7}$
(4) 2

THANK YOU

धन्यवाद