

# BODMAS



❖ From left to right direction →

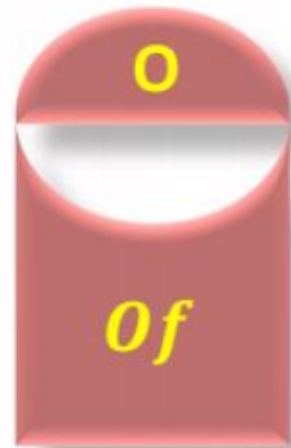


Vineculum  
bar



Bracket

( ) ✓  
{ } ✓  
[ ] ✓



Order



Division



multiplication



Addition



Subtraction

$$5 \div 5 \div 5 \div 5$$

$$1 \div 5 \div 5$$

$$= 1 \times \frac{1}{5} \times \frac{1}{5} = \frac{1}{25}$$

$$\frac{a}{b} \div \frac{c}{d} = \frac{a}{b} \times \frac{d}{c}$$

$$= \frac{1}{5} \times \frac{1}{5}$$

self Practice

600



180. Simplify the following/ निम्न को सरल करें।

$$3\frac{1}{7} + 2\frac{2}{9} - 1\frac{4}{63}$$

[A]  $4\frac{19}{63}$

[C]  $1\frac{19}{63}$

[B]  $2\frac{25}{63}$

[D]  $3\frac{11}{63}$

$$= 4 + \frac{1}{7} + \frac{2}{9} - \frac{4}{63}$$

$$= 4 + \frac{9+14-4}{63}$$

$$= 4 + \frac{19}{63}$$



**181. If  $(1.25)(1 - 6.4 \times 10^{-5}) = 1.2496 + a$ , then  $a$  is equal to:**

**यदि  $(1.25)(1 - 6.4 \times 10^{-5}) = 1.2496 + a$  है तो  $a$  बराबर है:**

[A] 0.0016

[B] 0.00016

[C] 0.0032

[D] 0.00032

$$\underline{1.2500} - .00008 - \underline{1.2496} = a$$

$$.00040 - .00008$$

$$10^5 \times 1.25 \times 6.4 = .00008 = .00032$$



**182. Find the value of the given expression?**

**दिए गए व्यंजक का मान बताइये?**

$$[76 - \{90 \div 5 \times 12 \div 3\}]$$

[A] 71.5

[B] 4

[C] 75.5

[D] 77.5

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$$76 - 72 = 4$$



183. The value of  $272 \div 16 + [119 \div \{1491 \div 3 (21 - 13 \times 8 + 4 \times 3)\}]$  is.

$272 \div 16 + [119 \div \{1491 \div 3 (21 - 13 \times 8 + 4 \times 3)\}]$  को हल कीजिए।

[A] -9

[C] 8

[B] 0

[D] 11

$$\begin{aligned} 17 - 17 \\ = 0 \end{aligned}$$

$$\begin{aligned} \cancel{1491} \div \cancel{3} &= \cancel{497} \\ 119 \div -7 & \\ -17 & \end{aligned}$$



**184. The value of  $54 \div 16 \text{ of } 3 \times [12 \div 4 \text{ of } \{6 \times 3 \div (11 - 2)\}] \div (12 \div 8 \times 2)$  is:**  
 **$54 \div 16 \text{ of } 3 \times [12 \div 4 \text{ of } \{6 \times 3 \div (11 - 2)\}] \div (12 \div 8 \times 2)$  का मान ज्ञात करें।**

[A]  $\frac{3}{4}$   
[C]  $\frac{3}{8}$

[B]  $\frac{9}{16}$   
[D]  $\frac{9}{8}$



185. The value of  $90 \div 20$  of  $6 \times [11 \div 4$  of  $\{3 \times 2 - (3 - 8)\}] \div (9 \div 3 \times 2)$  is?

$90 \div 20$  of  $6 \times [11 \div 4$  of  $\{3 \times 2 - (3 - 8)\}] \div (9 \div 3 \times 2)$  का मान ज्ञात करें।

[A]  $\frac{1}{36}$   
[C]  $\frac{9}{8}$

[B]  $\frac{1}{32}$   
[D]  $\frac{3}{8}$

$$\begin{aligned} & 90 \div 20 \text{ of } 6 \times \left(\frac{1}{4}\right) \div 6 & 11 \div 4 \text{ of } 11 \\ & 90 \div 20 \times \frac{1}{4} \div 6 & = \frac{1}{4} \\ & = \frac{9}{4} \times \frac{1}{4} \times \frac{1}{6} = \frac{1}{32} \end{aligned}$$



$$5 \times 3 \div \left(\frac{1}{2}\right)$$

$$= 5 \times 3 \times 2$$

$$= 30 \checkmark$$

**186. The value of  $9 \times 6 \div 24 + 8 \div 2 \text{ of } 5 - 30 \div 4 \text{ of } 4 + 27 \times 5 \div 9$  is:**

$9 \times 6 \div 24 + 8 \div 2 \text{ of } 5 - 30 \div 4 \text{ of } 4 + 27 \times 5 \div 9$  का मान है:

[A]  $\frac{259}{8}$

[C]  $\frac{493}{8}$

[B]  $\frac{647}{40}$

[D]  $\frac{243}{8}$

$$\frac{9}{4} + \frac{4}{5} - \frac{15}{8} + 15$$

$$= \frac{90 + 32 - 75}{40}$$

$$= \frac{47}{40} + 15 = \frac{647}{40}$$



**188. If  $640 \div 8 + 930 \div 15 - k + 32 \times 5 = 1104 \div 16 \times 148 \div 37$ , then the value of k is?**

**यदि  $640 \div 8 + 930 \div 15 - k + 32 \times 5 = 1104 \div 16 \times 148 \div 37$ , तो k का मान क्या है?**

**SSC CHSL 2024**

[A] 276

[B] 26

[C] 35

[D] 302



**189. Select the correct combination and order of mathematical signs to replace '\*' such that the equation is balanced:**

समीकरण को संतुलित करने के लिए '\*' को प्रतिस्थापित करने के लिए गणितीय चिह्नों के सही संयोजन और क्रम का चयन करें:

$$172 \div 86 + 14 \times 2 = 30$$

[A]  $\div, -, +$

[C]  $\div, -, \times$

[B]  $\div, +, \times$

[D]  $\div, +, \div$



190. If '÷' means '×', '×' means '÷', '+' means '-', '-' means '+', then  $47 \div (10 \times 5) + (4 - 5) - 6$  is:  
यदि '÷' का अर्थ '×' है, '×' का अर्थ '÷' है, '+' का अर्थ '-' है, '-' का अर्थ '+' है, तो  $47 \div (10 \times 5) + (4 - 5) - 6$  है:

**SSC CHSL 2024**

[A] 91

[B] 59

[C] 79

[D] 100



191. If  $x=0.35$  and  $y=6/5$ , then the value of  $x \times y \div (100x - 30y) \times \left(\frac{y}{2.1}\right) + \frac{6}{y}$  is \_\_\_\_\_?

यदि  $x=0.35$  और  $y=6/5$ , तो  $x \times y \div (100x - 30y) \times \left(\frac{y}{2.1}\right) + \frac{6}{y}$  का मान \_\_\_\_\_ है?

[A] 4.76

[B] 4.67

[C] 6.47

[D] 7.46

$$\begin{aligned} & \cancel{.35} \times \frac{6}{5} \div (-1) \times \left( \frac{\cancel{6} \times \cancel{9}}{\cancel{5} \times \cancel{1}} \right) + 5 \\ & \longleftarrow \hspace{10em} \longrightarrow \\ & \cancel{.42} \times \frac{4}{7} + 5 \\ & = \cancel{.24} + 5 \end{aligned}$$





193. Find  $\frac{1}{8} \div \frac{1}{8} \div \frac{1}{8} \div \frac{1}{8} \div \frac{1}{8}$ ?

$\frac{1}{8} \div \frac{1}{8} \div \frac{1}{8} \div \frac{1}{8} \div \frac{1}{8}$  ज्ञात कीजिये?

[A] 512

[B] 600

[C] 500

[D] 700

$$1 \times \frac{8}{8} \times 8 \times 8$$



194. Simplify  $6\frac{4}{5} \div [4\frac{1}{4} \div \{5\frac{1}{3} \times \frac{3}{8} + (3\frac{1}{2} + \frac{2}{3}) \times \frac{4}{5}\}]$ ?

$6\frac{4}{5} \div [4\frac{1}{4} \div \{5\frac{1}{3} \times \frac{3}{8} + (3\frac{1}{2} + \frac{2}{3}) \times \frac{4}{5}\}]$  को सरल बनाएं?

(MTS 2023)

$\frac{16}{3}$

[A]  $8\frac{8}{15}$

[B]  $7\frac{8}{15}$

[C]  $7\frac{8}{25}$

[D]  $8\frac{8}{25}$

$$\frac{32}{5} \times \frac{64}{5 \times 3} = \frac{128}{15}$$
  
$$\frac{17}{4} \times \frac{3}{16}$$



195. The value of  $\frac{17.35 + \frac{7}{5} \text{ of } 55 - 7}{(42 \div 6 \times 8.35) - \frac{3}{7} \text{ of } \left(\frac{2}{3} - \frac{1}{5}\right) + [291 \div (80 \div 8)]}$  :

$\frac{17.35 + \frac{7}{5} \text{ of } 55 - 7}{(42 \div 6 \times 8.35) - \frac{3}{7} \text{ of } \left(\frac{2}{3} - \frac{1}{5}\right) + [291 \div (80 \div 8)]}$  का मान है?

[A] 1

[C] 2

[B] 3

[D] 4

$$\frac{87.35}{58.45 - 2 + 29.1} = \frac{87.35}{87.35} = 1$$

196. What is the value of  $\frac{7 \times 4 \div 8}{5 \times 25 \div 125} + \frac{5 \times 4 \div 8}{8 \times 4 \div 16} - \frac{7 \times 4 \div 2}{8 \times 7 \div 4}$  ?

$\frac{7 \times 4 \div 8}{5 \times 25 \div 125} + \frac{5 \times 4 \div 8}{8 \times 4 \div 16} - \frac{7 \times 4 \div 2}{8 \times 7 \div 4}$  का मान क्या है?

**SSC CHSL TIER - I 2022**

[A] 4

[B] 13/4

[C] 15/4

[D] 9/2

$\frac{7}{9} + \frac{5}{4} - 1$



**197. Simplify the following expression.**

**निम्नलिखित व्यंजक का मान ज्ञात कीजिये।**

$$\left[ \frac{85}{34} \times \frac{1}{18} - \left\{ \left( \frac{46}{69} \div \frac{27}{135} \right) - \left( \frac{86}{129} \times \frac{91}{14} \right) \right\} \text{ of } \frac{112}{36} \right]$$

**SSC CGL 2023 PRE**

**[A]**  $3\frac{1}{5}$

**[C]**  $3\frac{1}{2}$

**[B]**  $3\frac{3}{4}$

**[D]**  $3\frac{1}{4}$



**198. What is the value of  $\left[\frac{1}{8} + \left\{\frac{1}{6} \times \left(\frac{36}{45} \div \frac{24}{25}\right) - \left(\frac{12}{21} \times \frac{14}{15} \div \frac{24}{45}\right)\right\} + \frac{27}{36}\right]$ ?**

$\left[\frac{1}{8} + \left\{\frac{1}{6} \times \left(\frac{36}{45} \div \frac{24}{25}\right) - \left(\frac{12}{21} \times \frac{14}{15} \div \frac{24}{45}\right)\right\} + \frac{27}{36}\right]$  का मान क्या है?

**(MAINS 2023)**

[A]  $\frac{1}{27}$

[C]  $\frac{1}{72}$

[B]  $\frac{1}{108}$

[D]  $\frac{1}{36}$



**199. Simplify:**  $\frac{6}{5} \div \frac{6}{5} \text{ of } \frac{6}{5} \times \frac{5}{6} + \frac{9}{4} \div \frac{4}{5} \text{ of } \frac{15}{2} - \left\{ 8\frac{5}{9} + \left( \frac{4}{3} + \frac{5}{3} \text{ of } \frac{6}{25} \right) \right\}$  का मान ज्ञात कीजिए।

**[A]**  $-9\frac{9}{40}$       **[A]**  $-9\frac{79}{360}$

**[C]**  $-9\frac{7}{120}$       **[D]**  $-8\frac{281}{360}$

$$\frac{25}{36} + \frac{3}{8} - 10 - \frac{13}{45}$$

$$= -10 + \frac{(25 \times 5 + 135 - 104)}{36}$$

$$= -10 + \frac{281}{36} = -\left(9 + \frac{79}{36}\right)$$

~~$$\frac{4}{3} + \frac{2}{5}$$~~

$$\frac{77}{9} + \frac{26}{15}$$

$$= \frac{385 + 78}{45} = \frac{463}{45}$$



225. The value of  $\frac{7+8 \times 8 \div 8 \text{ of } 8+8 \div 8 \times 4 \text{ of } 4}{4 \div 4 \text{ of } 4+4 \times 4 \div 4-4 \div 4 \text{ of } 2}$  is:

$\frac{7+8 \times 8 \div 8 \text{ of } 8+8 \div 8 \times 4 \text{ of } 4}{4 \div 4 \text{ of } 4+4 \times 4 \div 4-4 \div 4 \text{ of } 2}$  का मान है:

- [A] 4.6
- [C] 7.8

- [B] 8.7
- [D] 6.4

$$\begin{array}{r} 8 \\ \cancel{24} \\ \hline 5 \cancel{15} \\ 4 \end{array}$$

$$= \frac{30}{5} = 6.4$$

$$\begin{aligned} & \frac{1}{4} + 4 - \frac{1}{2} \\ &= 4 - \frac{1}{4} = \frac{15}{4} \end{aligned}$$

**236. Simplify the following/ निम्नलिखित को सरल कीजिए**

$$12 - [2.06 + \{2.57 + (9.91 - \underline{5.09 - 0.76})\}]?$$

**(DP CONSTABLE 2023)**

[A] 2.17

[B] 1.79

[C] 2.79

[D] 1.99



234. On simplifying the following expression, we get \_\_\_\_\_  $\frac{24\sqrt{45}-16\sqrt{20}+\sqrt{245}-47\sqrt{5}}{3\frac{1}{5}+1\frac{2}{5}-2\frac{1}{6}-2\frac{1}{5}-5\frac{2}{5}+3\frac{1}{6}}$ ?

निम्नलिखित व्यंजक  $\frac{24\sqrt{45}-16\sqrt{20}+\sqrt{245}-47\sqrt{5}}{3\frac{1}{5}+1\frac{2}{5}-2\frac{1}{6}-2\frac{1}{5}-5\frac{2}{5}+3\frac{1}{6}}$  को सरल बनाने पर, हमें \_\_\_\_\_ मिलता है?

(MTS 2023)

[A] 0 ✓

[B] 3

[C] 1

[D] 2

$$\frac{\sqrt{\quad}}{x} = \sqrt{\frac{\quad}{x^2}}$$



**226. Find the value of 15% of 1.5 + 0.15 ÷ 0.1 + 0.01 of 1.1 × 0.5 + 2.5 × 25.**

15% of 1.5 + 0.15 ÷ 0.1 + 0.01 of 1.1 × 0.5 + 2.5 × 25 का मान ज्ञात कीजिए।

**SSC CPO Pre 2024**

~~[A] 77.2305~~

~~[C] 62.2305~~

✓ [B] 64.2305 + 62.5

~~[D] 6.42305~~

$$62.5 + 1.5 + 0.055 + 62.5$$



**220. The value of  $\left(1\frac{1}{3} \div 2\frac{6}{7} \text{ of } 5\frac{3}{5}\right) \div \left(6\frac{2}{5} \div 4\frac{1}{2} \text{ of } 5\frac{1}{3}\right) \times \left(\frac{3}{4} \times 2\frac{2}{3} \div \frac{5}{9} \text{ of } 1\frac{1}{5}\right) = 1 + k$ , where  $k$  lies**

**between:**

$\left(1\frac{1}{3} \div 2\frac{6}{7} \text{ of } 5\frac{3}{5}\right) \div \left(6\frac{2}{5} \div 4\frac{1}{2} \text{ of } 5\frac{1}{3}\right) \times \left(\frac{3}{4} \times 2\frac{2}{3} \div \frac{5}{9} \text{ of } 1\frac{1}{5}\right) = 1 + k$ ,  $k$  का मान किस के बीच होगा:

[A] -0.05 and -0.04      [B] -0.07 and -0.06

[C] -0.08 and -0.07      [D] -0.06 and -0.05

$$\frac{4}{3} \times \frac{1}{16}$$

$$\frac{3^4}{5} \times \frac{1}{3}$$

$$\frac{3}{4} \times \frac{8}{3} \times \frac{3}{9}$$

$$\frac{15}{16} = 1 + k$$

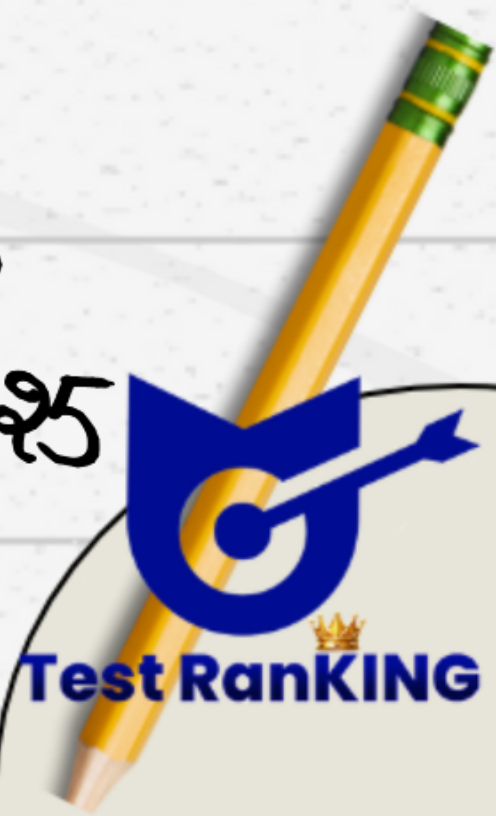
$$\frac{1}{12} \div \frac{4}{15} \times 3$$

$$\left. \begin{aligned} \frac{1}{16} &= .0625 \\ \frac{1}{8} &= .125 \end{aligned} \right\}$$

$$k = -\frac{1}{16}$$

$$= -.0625$$

$$\frac{1}{12} \times \frac{15}{4} \times 3$$



**229.**  $31^3 + 18^3 - 37^3 + 210$  is equal to:

31<sup>3</sup> + 18<sup>3</sup> - 37<sup>3</sup> + 210 बराबर है:

D.S

[A] ~~-36810~~

[B] ~~-14820~~ ✓

[C] ~~-45670~~

[D] ~~-23450~~

64

$$= \cancel{1} + \cancel{9} - \cancel{1} + 3$$

$$D.S = 3 \text{ or } -6 \checkmark$$

**239. Solve the following/निम्नलिखित को हल कीजिए।**

$$\frac{24 \div \frac{3}{8} \text{ of } (8 + 2 \times 7 - 3) + \left[ \frac{2}{11} \div \frac{4}{55} \div \left\{ \frac{5}{8} + \frac{6}{16} \right\} \right]}{32 \div \underline{15 - 7} + 75 \div (6 + \underline{15 \div 3} + 4)}$$

[A] 23/27

[B] 9/2

[C] 11/18

[D] 15/19

$$\frac{4 + \frac{5}{2}}{9} = \frac{13}{18}$$

$$\left(1 + \frac{1}{2 + \frac{1}{3}}\right)$$

$$\left(1 - \frac{1}{4 - \frac{2}{1 + \frac{1}{2 + \frac{1}{3}}}}\right)$$

$$\times \frac{15}{16} \div \frac{2}{3} \text{ of } 2\frac{1}{4}$$

$$- \frac{3+4}{3^3+4^3}$$

को सरल करें।

~~2 of 2~~<sup>3</sup>

$\frac{7}{9}$

[A]

$$\frac{6}{13}$$

[B]

$$\frac{5}{13}$$

[C]

$$\frac{4}{13}$$

[D]

$$\frac{8}{13}$$

$\frac{8}{13} \times \frac{15}{16} \times \frac{2}{3} - \frac{1}{13}$   
 $= \frac{4}{13}$



end



**200. The value of  $56 \div [12 + 9 \div 3 - \{8 + (18 \text{ of } 2 \div 9) - (40 \div 5 \text{ of } 2)\}] + \frac{27 + \frac{2}{5} \text{ of } 75}{5 + \frac{2}{3} \times (58 - 37)}$  is:**

**$56 \div [12 + 9 \div 3 - \{8 + (18 \text{ of } 2 \div 9) - (40 \div 5 \text{ of } 2)\}] + \frac{27 + \frac{2}{5} \text{ of } 75}{5 + \frac{2}{3} \times (58 - 37)}$  का मान ज्ञात करें।**

**[A] 8**

**[B] 11**

**[C] -11**

**[D] -8**





**Test RAN KING**