



Welcome to

Khan Global Studies



$$\sqrt{5 \times 5 \times 2 \times 2 \times 7 \times 7}$$

$$5 \times 2 \times 7 = 70$$

(1) 70

(2) 60

(3) 75

(4) 65

8. $\frac{?}{25} = \frac{196}{?}$ वह संख्या ज्ञात कीजिए जिसे '?' चिह्न से बदला जा सके।

$$\frac{x}{25} \times \frac{196}{x}$$

$$x^2 = 25 \times 196$$

$$x = \sqrt{25 \times 196}$$

$$= 5 \times 14$$
$$= 70$$

$$(a^2 - b^2) \rightarrow (a+b)(a-b)$$

9. $\frac{98 \times 98 - 2 \times 2}{98 - 2} = ?$

$$\frac{98^2 - 2^2}{98 - 2} = \frac{(98+2)(98-2)}{(98-2)} = 100$$

$$98^2 - 2^2$$

$$(98+2)(98-2)$$

(1) 96

~~(2) 100~~

(3) 102

(4) 90

$$a^3 - b^3 = (a - b)(a^2 + b^2 + ab)$$

$$\frac{(0.7 - 0.6)(\cancel{0.7^2 + 0.6^2 + 0.7 \times 0.6})}{\cancel{[(0.7)^2 + 0.7 \times 0.6 + (0.6)^2]}}$$

$$= 0.7 - 0.6$$

$$= \boxed{0.1}$$

10.

$$\frac{(0.7)^3 - (0.6)^3}{(0.7^2 + 0.7 \times 0.6 + 0.6^2)} = ?$$

(1) 1.1

(2) 0.1

(3) 1.3

(4) 1

$$5^3 - 3^3$$
$$= 125 - 27$$
$$= \boxed{98}$$

$$\boxed{15^3 - 13^3}$$

$$a^3 - b^3$$
$$\downarrow$$

$$\underline{(a-b)(a^2+b^2+ab)}$$

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$$\textcircled{1} \left(\frac{3}{5} \times \frac{3}{5} - \frac{2}{5} \times \frac{2}{5} \right) \div \left(\frac{3}{5} - \frac{2}{5} \right) \quad 1. \left(\frac{3}{5} \times \frac{3}{5} - \frac{2}{5} \times \frac{2}{5} \right) \div \left(\frac{3}{5} - \frac{2}{5} \right) = ?$$

$$\textcircled{2} \left(\frac{9}{25} - \frac{4}{25} \right) \div \left(\frac{3}{5} - \frac{2}{5} \right)$$

$$\textcircled{3} \frac{5}{25} \div \frac{1}{5}$$

$$\textcircled{4} \frac{5}{25} \times \frac{5}{1} = \textcircled{1}$$

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

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

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

$$(4) 1$$

$$\frac{3}{5} \times \frac{2}{5} = \frac{6}{25}$$

$$\frac{1}{5}$$

$$\frac{6}{25} \div \frac{1}{5} = \frac{6}{5}$$

9604

Handwritten multiplication of 98 by 98, crossed out with a large X. The result 9604 is circled.

$$\begin{array}{r} 98 \\ \times 98 \\ \hline 784 \\ 882 \\ \hline 9604 \end{array}$$

Handwritten subtraction of 4 from 9604 to get 9600.

$$\begin{array}{r} 9604 \\ - 4 \\ \hline 9600 \end{array}$$

12. $98 \times 98 - 2 \times 2 = ?$

$(98^2 - 2^2)$

~~(1) 9600~~

(2) 9800

(3) 9822

(4) 9400

$(98+2)(98-2)$

100×96

$$(104)^2 \rightarrow \boxed{10816}$$

$$(103)^2 \rightarrow 10609$$

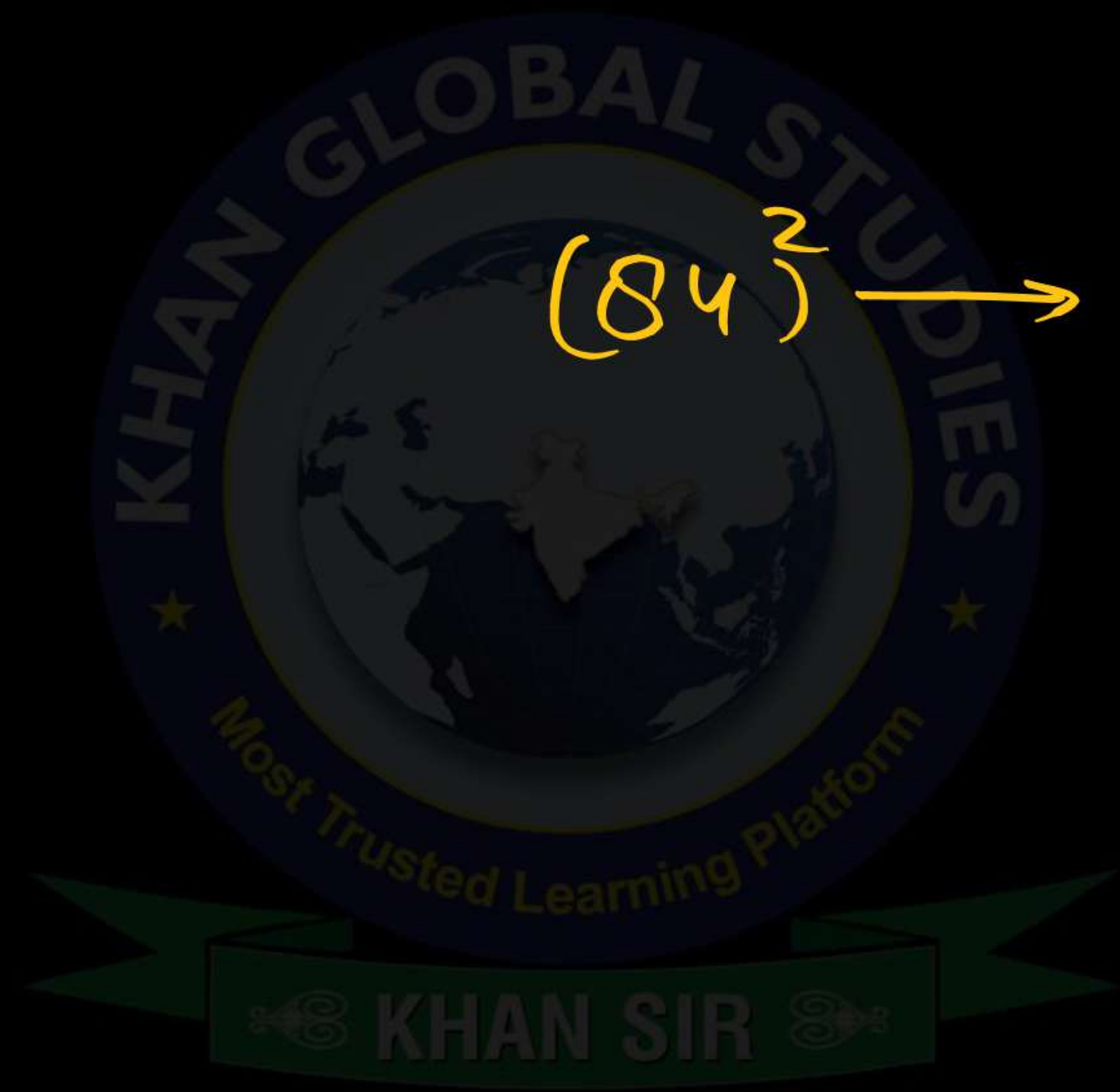
$$(107)^2 \rightarrow \boxed{11449}$$

$$(98)^2 \rightarrow \underline{9604}$$

$$(97)^2 \rightarrow \boxed{9409}$$

$$(96)^2 \rightarrow \boxed{9216}$$

$$(92)^2 \rightarrow \boxed{8464}$$



$$(84)^2 \rightarrow$$

$$\underline{7056}$$

$$\textcircled{2} \underline{56}$$

13. $20 - [5 - \{6 + 2(7 - \overline{8 - 5})\}] = ?$

(1) 27

(2) 28

☒ (3) 29

(4) 30

$$20 - [5 - \{6 + 2(7 - 3)\}]$$

$$20 - [5 - \{6 + 2(4)\}]$$

$$20 - [5 - \{6 + 8\}]$$

$$20 - [5 - 14]$$

$$20 - [-9]$$

$$(20 + 9)$$

BOOMAS

$$\begin{array}{r} \overset{7}{7 \times \cancel{21}} \div \cancel{3} + \textcircled{3} \\ \hline \overset{2}{\cancel{8}} \div \cancel{4} \times 2 \end{array}$$

$$\textcircled{\begin{array}{r} \cancel{52} \\ \hline \cancel{4} \end{array}}$$

$$14. \frac{7 \times 21 \div 3 + 3}{8 \div 4 \times 2} = ?$$

☒ (1) 13

(2) 17

(3) 31

(4) 1

15. $72 \div (3)^2 + (2)^2 = ?$

$$\begin{array}{l} 72 \div 9 + 4 \\ \quad \quad \quad 8 \\ \hline \frac{72}{9} + 4 \\ \hline 8 + 4 \end{array}$$

(1) 1

(2) 6

(3) 0

✓ (4) 12

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16. निम्न समीकरण में प्रश्न चिह्न (?) के स्थान
आना चाहिए? 21-9

$$8\sqrt{?} \div 14 \times 3 + 9 = 21$$

$$\cancel{8\sqrt{x}} \times \cancel{3} = \cancel{12}$$

(1) 7

(2) 49

$$(3) \frac{\sqrt{x}}{2} = 1$$

$$(4) 196 \sqrt{x} = 7$$

$$x = \underline{49}$$

$$(\sqrt{x})^2 = (7)^2$$

$$x = 49$$

$$\boxed{\begin{array}{l} \sqrt{x} = 7 \\ x = 7^2 \end{array}}$$

$$(\sqrt{x})^2 = 7^2$$

$$x = \underline{49}$$

$$\frac{\left(\frac{3}{5} - \frac{1}{2}\right) \text{ का } \cancel{\frac{10}{3}}}{\left(\frac{3}{5} + \frac{1}{2}\right) \text{ का } \cancel{\frac{10}{3}}}$$

✓ 17. $\frac{\left(\frac{3}{5} - \frac{1}{2}\right) \text{ का } \cancel{3\frac{1}{3}}}{\left(\frac{3}{5} + \frac{1}{2}\right) \text{ का } \cancel{3\frac{1}{3}}} = ?$

$$\frac{\frac{6-5}{10}}{\frac{6+5}{10}} = \frac{\cancel{\frac{1}{10}}}{\cancel{\frac{11}{10}}}$$

(1) $\frac{1}{15}$

(2) $\frac{1}{12}$

(3) $\frac{1}{9}$

$= \frac{10}{110} = \frac{1}{11}$ ✓ (4) $\frac{1}{11}$

18. $2\frac{1}{2} - \frac{7}{2} + \underbrace{4 \div 2}_{=2} = ?$

(1) 0 $\frac{5}{2} - \frac{7}{2} + \frac{4}{2}$

(2) 3

(3) -1

(4) 1

$$\frac{5 - 7 + 4}{2}$$

2/2



MATHS (गणित)

महिला सुपरवाइज़र

H.W

19. $4.\overline{16} + 3.\overline{18} - 4.\overline{30} = ?$

(1) $4.\overline{24}$

(2) $3.\overline{04}$

(3) $3.\overline{24}$

(4) उपर्युक्त में से कोई नहीं

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$$92 \div 8 \div 2 \div 5 \div 4$$

$$92 \times \frac{1}{8} \times \frac{1}{2} \times \frac{1}{5} \times \frac{1}{4}$$

20. $92 \div 8 \div 2 = ?$

$23 \cancel{40} \cancel{92} \times \frac{1}{\cancel{8}_4} \times \frac{1}{\cancel{2}}$

(1) 5.25

(2) 4.25

(3) 5.75

(4) 4.75

$$= \frac{23}{4}$$

$$= 5.75$$



MATHS (गणित)

महिला सुपरवाइज़र

21. $(988 - 12)$ $(988 + 12)$ = ?

M.W

(1) 976000

(2) 988112

(3) 988000

(4) 976112

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MATHS (गणित)

महिला सुपरवाइज़र

22. 50 रुपए के $4\frac{1}{8}$ का $\frac{4}{11} = ?$

M.W

- (1) 75
- (2) 30
- (3) 40
- (4) 25

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23. $\frac{0.85 \times 0.85 - 0.15 \times 0.15}{0.85 - 0.15} = ?$

H.W

- (1) 1.5
- (2) 8.5
- (3) 1.0
- (4) 0.7

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MATHS (गणित)

महिला सुपरवाइज़र

24. $\frac{80}{?} = \frac{?}{20}$

11.10

- (1) 40
- (2) 400
- (3) 800
- (4) 60

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25. $\left(\frac{1}{2} + \frac{1}{2} \times \frac{1}{2}\right) \div \frac{3}{4} = ?$

11.10

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

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

(3) 1

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

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THANKS FOR WATCHING

