



Welcome to

Khan Global Studies



→ B → Bracket

- ()
- { }
- []

→ O → of (का) → ×

D
M

→ Division (भाग) ÷

→ Multiplication × (गुणा)

A
S

→ Addition (जोड़ना) +

→ Subtraction (घटाव) -

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

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

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

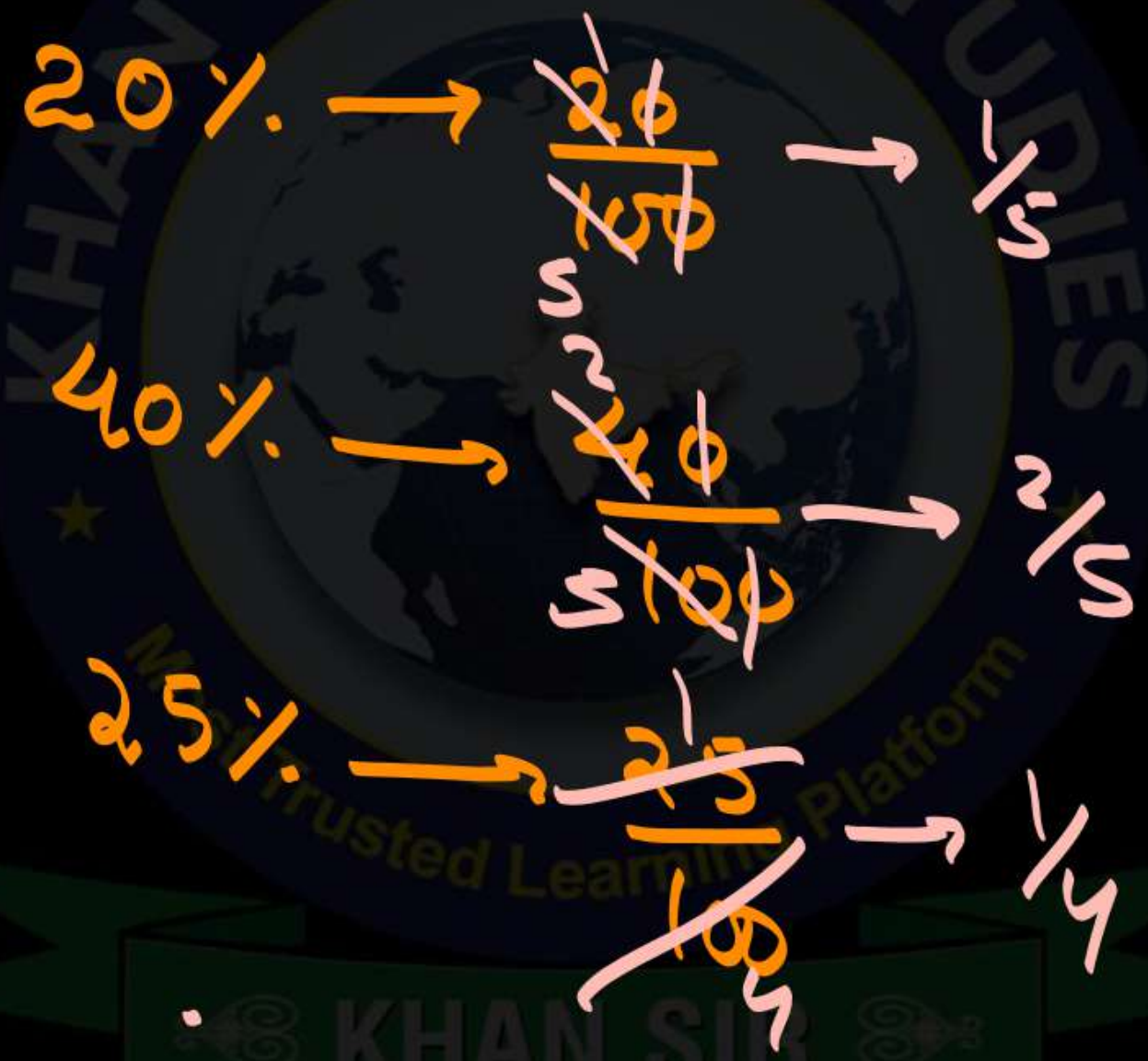
$$(a+b+c)^2 = a^2 + b^2 + c^2 + 2(ab + bc + ca)$$

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

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

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

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



$$\begin{aligned} 2 \times 5 &= 10 \\ 4 \times 25 &= 100 \\ 8 \times 125 &= 1000 \end{aligned}$$

1. $(8) \times (291) \times (125)$ का मान है :

(1) 36375

(2) 29100

(3) 23280

✓ (4) 291000

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$$\begin{array}{r}
 0.500 \\
 0.050 \\
 5.000 \\
 \hline
 5.550
 \end{array}$$

2. $0.5+0.05+5$ का मान है:

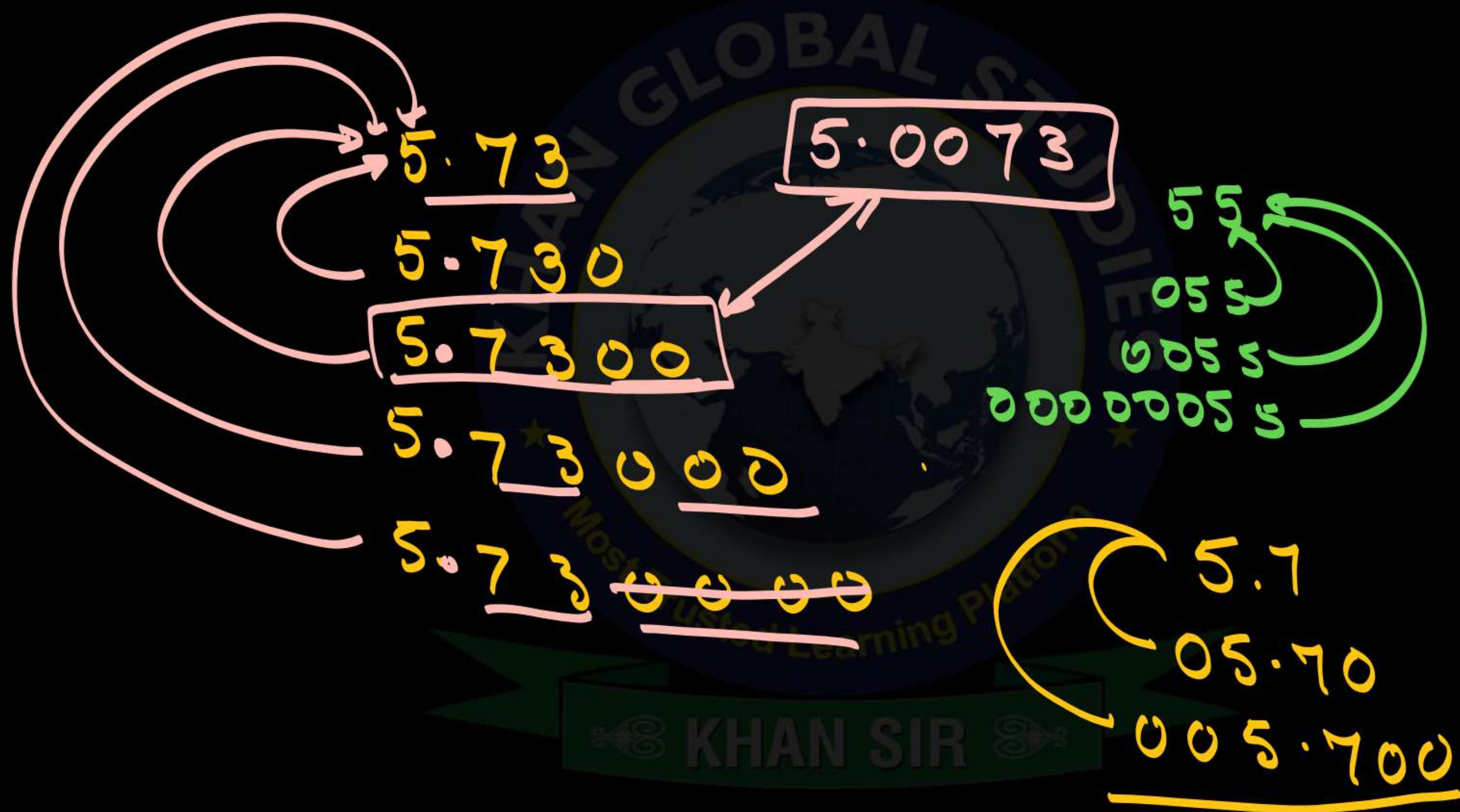
(1) 5.505

(2) 5.055

(3) 0.555

(4) 5.550

$$\begin{array}{r}
 0.5 \\
 0.05 \\
 5 \\
 \hline
 5.55
 \end{array}$$



550
5500
55000

55
055
0055
00000055

✓ 3. यदि $700x = 525$, तो x का मान होगा:

$$700x = 525$$

$$x = \frac{525}{700}$$

$$x = \frac{525 \div 75}{700 \div 75} = \frac{7}{93}$$

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

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

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

✓ (4) $\frac{3}{4}$

25. 8 = 200

25. 9 = 225

25. 1 = 25

25. 2 = 50

25. 3 = 75

25. 4 = 100

25. 5 = 125

25. 6 = 150

25. 7 = 175

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

$$\frac{3}{4} - \frac{1}{4}$$

$$\frac{\frac{9}{16} - \frac{1}{16}}{\frac{2}{4}} = \frac{\frac{8}{16}}{\frac{2}{4}} = \frac{8}{16} \div \frac{2}{4} = \frac{8}{16} \times \frac{4}{2} = \frac{32}{32} = 1$$

4. $\frac{\left(\frac{3}{4} \times \frac{3}{4} - \frac{1}{4} \times \frac{1}{4} \right)}{\left(\frac{3}{4} - \frac{1}{4} \right)} =$

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

~~(2) 1~~

(3) 0

(4) 2

$$= \frac{\cancel{8} \times \cancel{4}}{\cancel{16} \times \cancel{2}} = 1$$

$$\begin{array}{r} 1.5 \\ 0.5 \\ \hline 2.0 \end{array} = 2$$

5. $\overset{a^2}{\boxed{1.5 \times 1.5}} + \overset{2ab}{\boxed{2 \times 1.5 \times 0.5}} + \overset{b^2}{\boxed{0.5 \times 0.5}} = ?$

(1) 2.25

(2) 2.50

(3) 4

(4) 2

$$= (a+b)^2$$

$$= (1.5 + 0.5)^2$$

$$= (2)^2$$

$$= 4$$

$$\frac{1}{2} + \frac{1}{3} + x = 1$$

$$x = 1 - \frac{1}{2} - \frac{1}{3}$$
$$= \frac{6 - 3 - 2}{6}$$

$$\frac{6 - 5}{6} = \frac{1}{6}$$

6. $\frac{1}{2} + \frac{1}{3} + ? = 1$

(1) $\frac{5}{6}$

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

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

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

$$0.003 \times 0.04 \times 0.7$$

$$0.00084$$

$$1. \quad 0.1 \times 0.01 \times 0.001 = ?$$

- (1) 0.0001
- (2) 0.000001
- (3) 0.00001
- (4) 0.0000001

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THANKS FOR WATCHING

