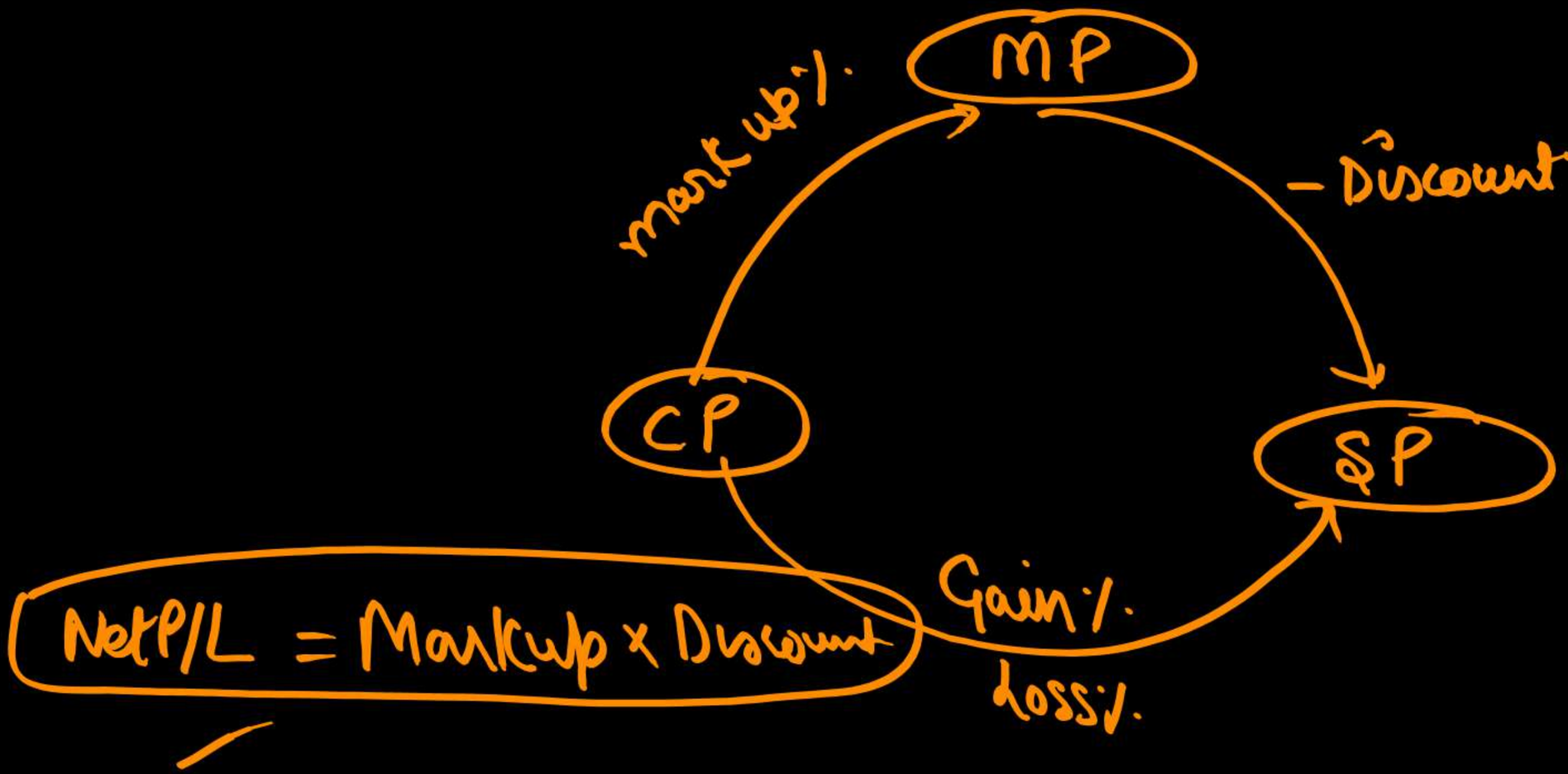
Profit & Loss

Markup/MP — अंकित मुल्य

Discount — छूट

Type-1


MP
mark up %.
- Discount %.
CP
SP
Net P/L = Markup x Discount
Gain %.
loss %.

Markup = $28\frac{4}{7}\%$ and discount = $11\frac{1}{9}\%$. Profit or Loss%=?

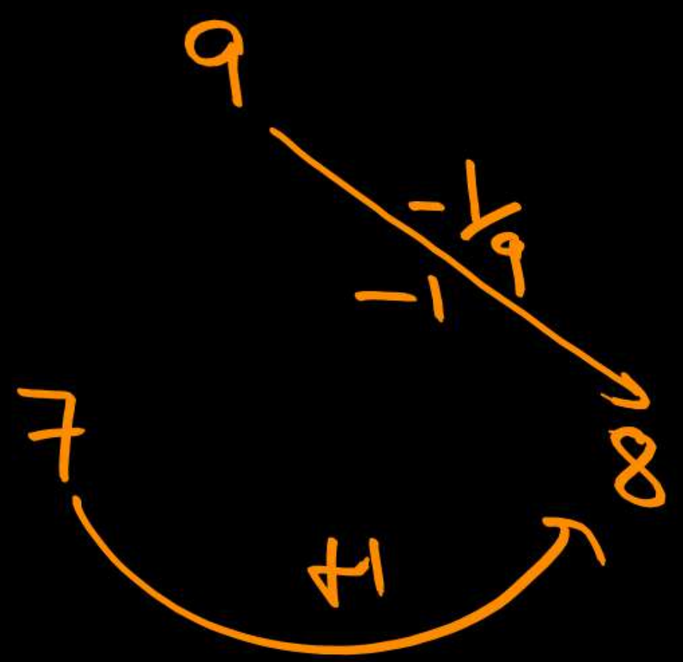
(a) 42.85

(b) 14.28

(c) 16.66

(d) 12.5

B



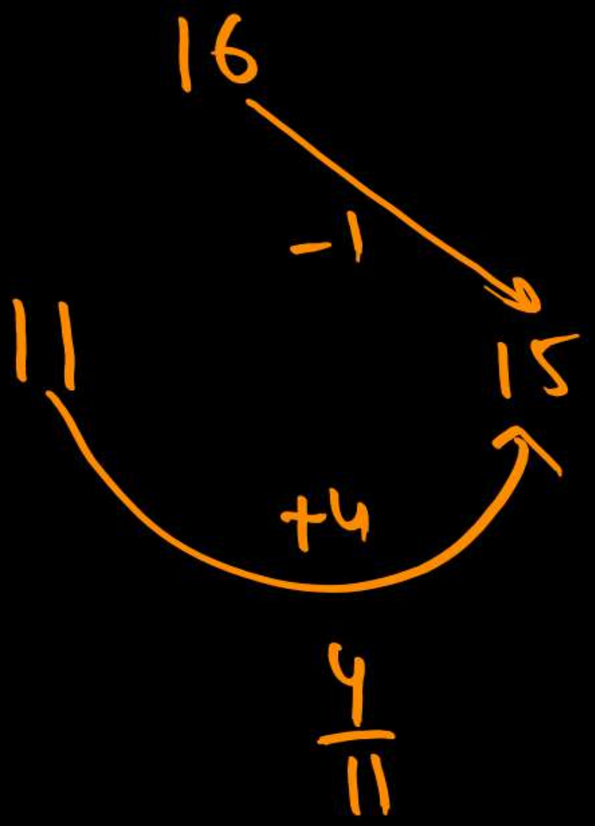
Markup = 45.45% and discount = 6.25%. Profit or Loss % = ?

(a) 33.33

(b) 36.36

(c) 44.44

(d) 45.45



Markup = 50% and Loss = 25%. Discount% = ?

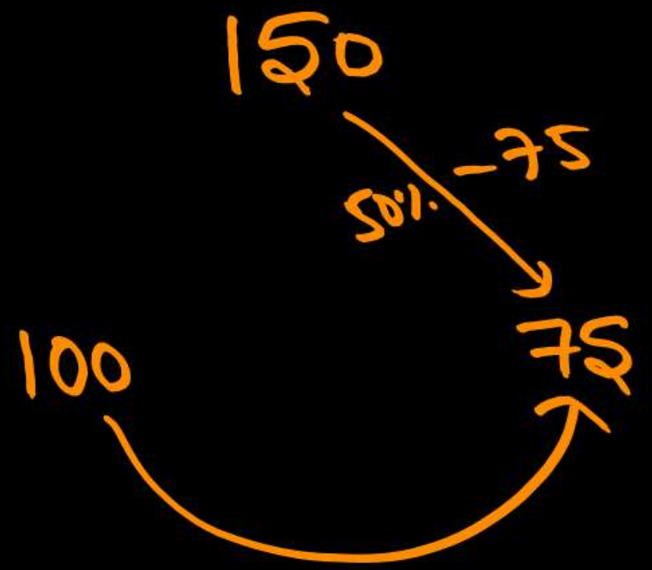
(a) 50

(b) 16.66

(c) 40

(d) 33.33

A



Markup = $33\frac{1}{3}\%$ and Profit = $16\frac{2}{3}\%$. Discount% = ?

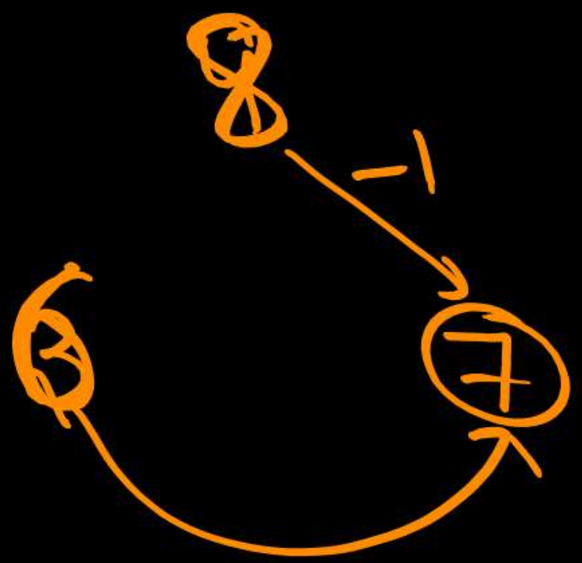
(a) 10

(b) 12.5

(c) 20

(d) 16.66

B



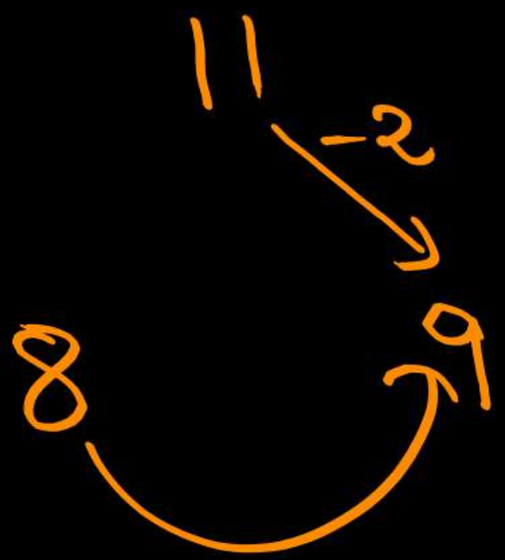
Markup = $37\frac{1}{2}\%$ and Profit = $12\frac{1}{2}\%$. Discount% = ?

(a) 18.18

(b) 28.57

(c) 27.27

(d) 12.5



After allowing a discount of $11\frac{1}{9}\%$, profit is $14\frac{2}{7}\%$.

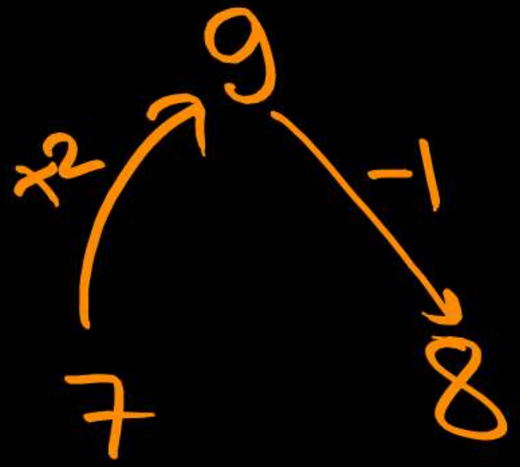
Markup% = ?

(a) 37.5

(b) 28.57

(c) 25

(d) 22.22



B

$\frac{2}{7}$

After allowing a discount of $22\frac{2}{9}\%$, loss is $12\frac{1}{2}\%$.

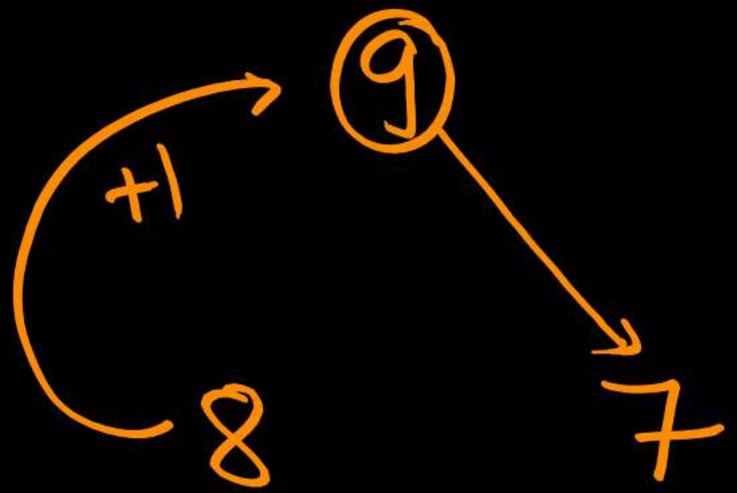
Markup% = ?

(a) 10

(b) 11.11

(c) 12.5

(d) 20



After allowing a discount of $6\frac{1}{4}\%$, profit is 36.36%.

Markup% = ?

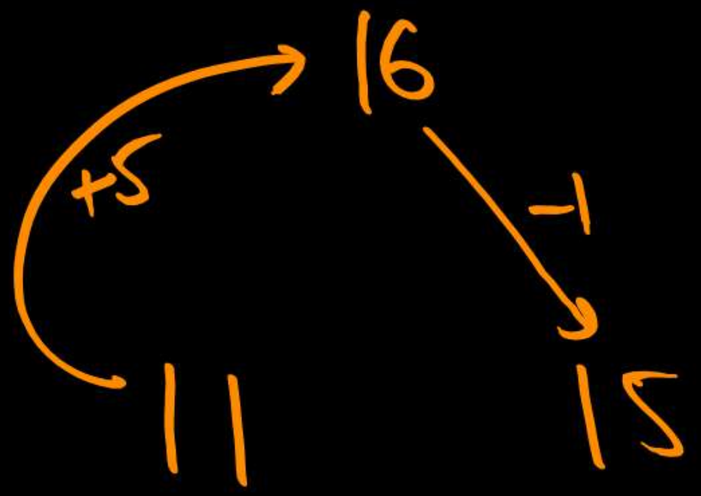
(a) 9.09

(b) 45.45

(c) 12.5

(d) 10

B



Type-2

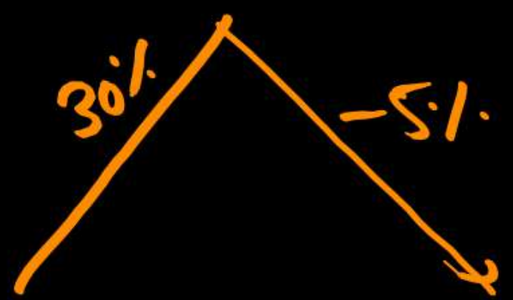
Markup = 30% and discount = 5%. Profit or Loss% = ?

(a) 23.5

(b) 24.5

(c) 25

(d) 20



$30-5-\frac{30\times5}{100}$

$\frac{13\times19}{10\quad20}$

A

Markup = 20% with no discount. Profit or Loss% = ?

(a) 25

(b) 16.66

(c) 50

(d) 20

Markup = 30% with no discount. Profit or Loss % = ?

(a) 42.85

(b) 33.33

(c) 45

(d) 30

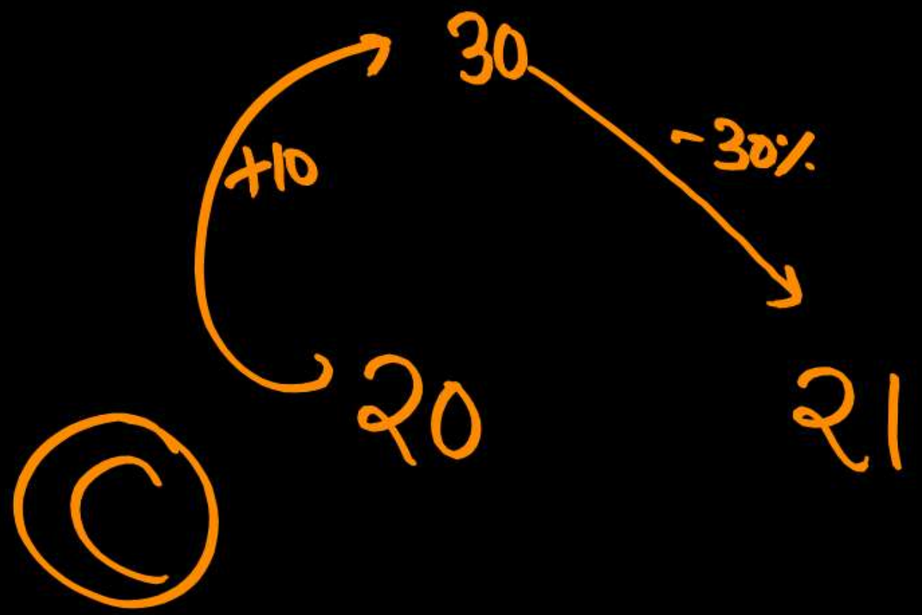
Markup = x%, discount = 30% and Profit = 5%. x = ?

(a) 5

(b) 25

(c) 50

(d) 150



MP increased by 45.45% and sold at CP. Discount% = ?

(a) 33.33

(b) 31.25

(c) 32.50

(d) 45.45

B

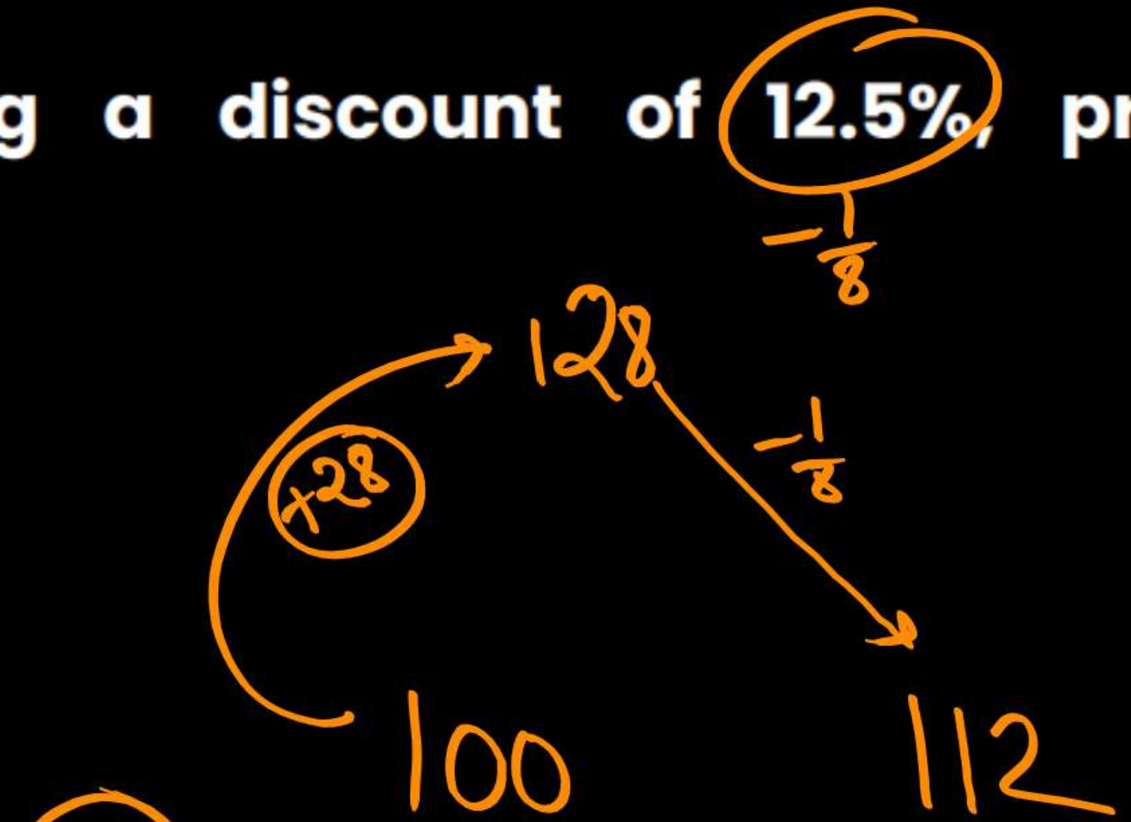
After allowing a discount of 12.5%, profit is 12% markup% = ?

(a) 37.5

(b) 32.84

(c) 28

(d) 33.33



C

Profit is $16\frac{2}{3}\%$ and discount $7\frac{1}{7}\%$. Markup% = ?

$\frac{1}{14}$

(a) $36\frac{1}{9}$

(b) $24\frac{1}{3}$

(c) 25.6

(d) 26.5

$$-\times\frac{13}{14_7}=\frac{7}{6_3}=\frac{49}{39}+10$$

25

$\frac{100}{39}$

Simplification (सरलीकरण)

- VBODMAS सबसे Important Concept

$$96-\left(42\div7\times15-7\div2\times3\right)$$

$$96-\left(6\times\frac{\cancel{42}^{\,6}}{\cancel{7}_{\,1}}\times3\right)=24$$

- **VBODMAS सबसे Important Concept**

$$38-(60\div5\times16-8\div2\div3)$$

22 Ans

- **Fraction की Mind में Calculation**

↳ $\frac{1}{3} \times \frac{1}{4} = \frac{7}{12}$

↳ $\frac{1}{2} - \frac{1}{5} = \frac{3}{10}$

↳ $3\frac{1}{3} + 5\frac{1}{4} = 8\frac{7}{12}$

↳ $10\frac{2}{3} - 4\frac{1}{5} = 6\frac{7}{15}$

↳ $3\frac{2}{5} + 4\frac{3}{4} = 8\frac{3}{20}$

↳ $6\frac{1}{4} - 3\frac{2}{5} = 2\frac{17}{20}$ ✓

- **Fraction की Mind में Calculation**

$$11\frac{1}{2} + 17\frac{3}{4} - 5\frac{1}{5} - 2\frac{1}{10} = ?$$

२१ $\frac{१९}{२०}$

- **Fraction की Mind में Calculation**

$$99\frac{1}{7}+99\frac{2}{7}+99\frac{3}{7}+\ldots 99\frac{6}{7}=?$$

$$99\times 6+\left(\frac{1}{7}+\frac{2}{7}+\ldots\frac{6}{7}\right)$$

$$594+3$$

$$597$$

- **Fraction की Mind में Calculation**

$$99\frac{1}{9}+99\frac{2}{9}+99\frac{3}{9}+99\frac{4}{9}+....99\frac{8}{9}=?$$

- $\frac{a}{b} \times \frac{c}{d}$ Rule

$$\frac{95}{5} \times \frac{4}{19} = 4$$

- $\frac{a}{b} \times \frac{c}{d}$ Rule

$$\frac{\cancel{273}}{\cancel{3}} \times \frac{4}{\cancel{13}} = 28$$

3+7

- $\frac{a}{b} \div \frac{c}{d}$ Rule

$$\frac{9}{4} \div \frac{45}{12} = \frac{3}{5}$$

- $\frac{a}{b} \div \frac{c}{d}$ Rule

$$\frac{126}{4} \div \frac{9}{12} = 42$$

14 3

- $\frac{a}{b} \div \frac{c}{d}$ Rule

$$\frac{327}{3} \div \frac{109}{12} = 12$$

3

4

- **Numbers का Algebra से Connection**

$$\frac{(273+116)^2-(273-116)^2}{2(273\times116)}$$

$$\frac{(a+b)^2-(a-b)^2}{2\times a\times b}=\frac{4ab}{2ab}=2$$

- **Numbers का Algebra से Connection**

$$\frac{(317+26)^2-(317-26)^2}{2(317\times 26)}$$

2

- **Numbers का Algebra से Connection**

$$\frac{(40.7)\times(40.7)\times(40.7)+1}{(40.7)\times(40.7)-(40.7)+1}=?$$

$$\frac{a^3+1^3}{a^2-a\times1+1^2}=a+1=40.7+1=41.7$$

- **Numbers का Algebra से Connection**

$$N = 12345^2 + 12345 + 12346, \sqrt{N} = ?$$

$12345^2 + 12345 + 12345 + 1$

$12345^2 + 2 \times 12345 \times 1 + 1^2$

$N = (12345+1)^2$

$\sqrt{N} = 12346$

Correlation Technique

$$\sqrt{(1111\ldots\text{100 times}) - (222\ldots\text{50 times})} = ?$$

$\times 2$

(A) (111.... 100 times)

(B) (111..... 50 times)

(C) (333..... 100 times)

(D) (333..... 50 times) ✓ (D)

$\sqrt{11-2} = \sqrt{9} = 3$

- **Special Series**

$$(2-1)(2+1)(2^2+1)(2^4+1)\ldots(2^{1024}+1) = ?$$

$$\frac{2-1}{2-1}$$

$$\frac{2^{2048}-1}{1}$$

- **Special Series**

$$(3+1)(3^2+1)(3^4+1)\ldots(3^{16}+1) = ?$$

$$\frac{3^{32}-1}{3-1} = \frac{3^{32}-1}{2}$$

- **Special Series**

$$(6-1)(6+1)(6^2+1)(6^4+1)\ldots(6^{64}+1) = ?$$

$$\frac{(6-1)(6+1)(6^2+1)(6^4+1)\ldots(6^{64}+1)}{(6-1)}$$

$$\frac{6^{128}-1}{5}$$

- **Step Cutting Approach (Visualisation)**

$$7\frac{1}{3} \div 2\frac{1}{2} \text{ of } 1\frac{3}{5} - \left(\frac{3}{8} + \frac{1}{7} \times 1\frac{3}{4}\right) - \frac{5}{24} = ?$$

$$\frac{11}{6} - \frac{5}{8} - \frac{5}{24}$$

$$\frac{24}{24} = 1$$

- **Fix Pattern का Smart Approach**

1. $a+\cfrac{1}{b+\cfrac{1}{c+\cfrac{1}{d}}}=\frac{43}{5}$. Find a + b + c + d.

$$8+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{2}}}$$

$$8+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{2}}}$$

Type – 1: (+ का sign हो और आगे पीछे 1 हो)

$$1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{5}}}}}}=?$$

1 5 6 11 17 28 45 $= \frac{45}{28}$

Type – 1: (+ का sign हो और आगे पीछे 1 हो)

$$1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{1+\cfrac{1}{7}}}}}} = ?$$

1 7 8 15 23 38 61

$\frac{61}{38}$

Type – 2: (जब ± दोनों signs हो हो और आगे पीछे 1 हो)

$$1+\cfrac{1}{1-\cfrac{1}{1+\cfrac{1}{1+\cfrac{5}{6}}}} = ?$$

5 6 11 17 6 23

$\frac{17}{6}$

Type – 2: (जब ± दोनों signs हो हो और आगे पीछे 1 हो)

$$1+\cfrac{1}{1-\cfrac{1}{1+\cfrac{1}{1+\cfrac{3}{4}}}} = ?$$

$3 \; \frac{1}{4} \; \frac{7}{4} \; \frac{11}{4} \; \frac{15}{4} = \frac{15}{4}$

Type – 3: (जब न आगे 1 हो और न पीछे 1 हो)

$$3+\cfrac{1}{2+\cfrac{2}{3+\cfrac{1}{2}}}=?$$

1 2 7 18 61

$\frac{61}{18}$

आगे वाला आगे से
पीछे वाला पीछे से