

WritED

RBI Grade B 2027

Quant

Live Class — 1

Percentage

PERCENTAGE

CLASS-1

“Every great journey begins with a single step. Start today with passion and persistence, and watch your dreams unfold.”

case 1 → Product

$$X = A \times B$$

exp. →

$$\text{Exp.} = \text{Price} \times \text{Consumption}$$
$$X = (A) \times (B)$$

3rd year = — X — X —
compounded

case 2 → Sum

$$X = A + B$$

$$T = A + B + C$$

$$I = E + S$$

$$\boxed{X = A \times B} \rightarrow \text{output}$$

Case-1:→

Output $\propto$ product

Tools

THEORY

Quant Basic Cal

1.2 times $\Rightarrow 20\% \uparrow = \frac{120}{100} = \frac{6}{5}$

② 20% successively 3 times increase

$$x (1.2) \times (1.2) \times (1.2)$$

$$x (1.728) \leftarrow$$

100% $\rightarrow 72.8\% \uparrow$

x $\uparrow 20\% \uparrow \frac{1}{5}$

$\rightarrow x + 20\% \text{ of } x$

$x (120\%)$

$\rightarrow x \times \frac{6}{5}$

$$\left\{ \left(x \times \frac{6}{5} \right) \frac{6}{5} \right\} \frac{6}{5}$$

$$\left(\frac{216}{125} \right) x$$

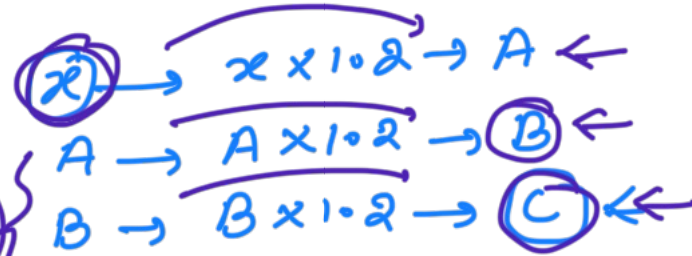
x $\downarrow 13\%$

$x - 13\% \text{ of } x$

$87\% \text{ of } x$

$0.87x$

$\frac{87}{100}x$



2.765

1.765 increase

100%

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Q# Population of any village **THEORY** increase by 30% every year.
Then by how much% population will increase in 3 years.

Let $P \times (1.3)(1.3)(1.3)$
 $P \times 2.197$
 ① $\swarrow$ 10197
 $\searrow$ 119.7%

$P \times \frac{13}{10} \times \frac{13}{10} \times \frac{13}{10}$
 $\Rightarrow P \times 2 \frac{197}{1000} \leftarrow 1197$
 $\Rightarrow \frac{1197}{1000} \times 100 \Rightarrow 119.7\%$

$(\alpha + \beta + \gamma)\% + \left[\frac{\alpha\beta + \beta\gamma + \gamma\alpha}{100} \right]\%$
 $+ \left[\frac{\alpha\beta\gamma}{10000} \right]\%$
 $90\% + \left[\frac{3 \times 30^2}{100} \right]\% + \frac{30 \times 30 \times 30}{10000}$
 $90\% + 27\% + 2.7\%$
 $\Rightarrow 119.7\%$

$\alpha + \beta + \frac{\alpha\beta}{100}$

$A \times B = C$

$D = A \times B \times C$

A is $\uparrow 17\%$

B is $\uparrow$ by 15%

C is $\downarrow$ by 10%

Then by what% D in $\uparrow$?

$1.17 \times 1.15 \times 0.9$

$17 + 15 + \frac{17 \times 15}{100} = 34.55\%$

$34.55 - 10 = \frac{34.55 \times 10}{100}$
 $24.55 - 3.45$
 $\Rightarrow 21.15\%$

$(17 + 15 - 10)\% +$
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If $A + B = C \leftarrow$

A is $\uparrow$ by 10% $\leftarrow$ B $\uparrow$ by 20% $\leftarrow$

Find by how much% C $\uparrow$

$\frac{9}{15} \rightarrow$
 $\frac{21}{100} \checkmark$

C.N.D.

$A + B = C$, $A = 200$
 $C = 500$

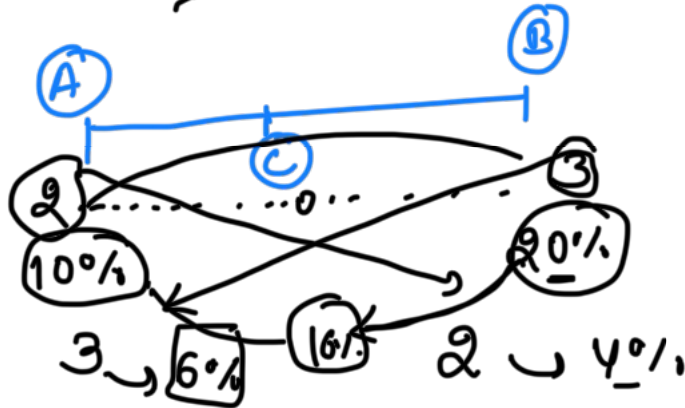
$\Rightarrow \frac{A}{B} = \frac{2}{3} \times 5$
 $\Rightarrow \frac{2}{3} \times 100 \Rightarrow 16\%$

$2 \times 1.1 + 3 \times 1.2 \Rightarrow 5.8$

$A \times B = C \rightarrow$ compound $A + B = C \rightarrow$ exact value

M.P.G. $\rightarrow$ Mass point Geometry / Allegation

$$C = A + B$$



$$5 \rightarrow 10\%$$

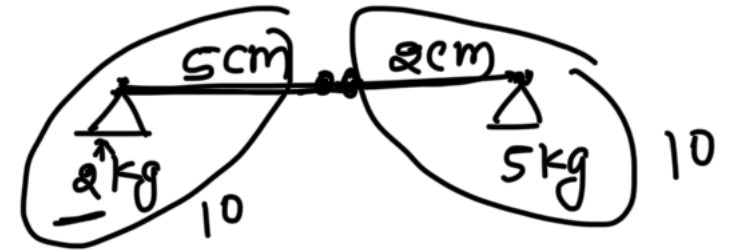
$$1 \rightarrow 20\%$$

Net $C = A + B$

Ans: $\rightarrow \frac{2 \times 10\% + 3 \times 20\%}{2 + 3}$

$$\Rightarrow \frac{20\% + 60\%}{5}$$

$$\Rightarrow \frac{80}{5} = 16\% \text{ Ans}$$



Q1.

0.007 is equivalent to

0.007 किसके बराबर है?

- (a) 7%
- (b) 0.7%
- (c) 0.07%
- (d) 70%