

AOA respected sir:

I am Rehmata who suffers from FSHD. This platform is the only source of guideline. Being disabled person, I cannot visit main campus. My admission is going to end in Nov. Please help me in giving guidelines about my tasks.

GSA Mat

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NOA Batch 59

Proportion

NO1 6 pens cost 54 rupees. What will 15 pens cost?

Sol:

①

Pens	Cost
6	54
15	x

②

$$\frac{15}{6} = \frac{x}{54}$$

③

$$9 \times 15 = 135$$
$$54 \times \frac{15}{6} = x$$

④

$$x = 135$$

Therefore, the cost of 15 pens will be 135 rupees

Q 2: If Ahmad spends 7 rupees a day, his savings last for 4 weeks. How many days will his savings last if he spends 10 rupees more per day?

Sol:

① Rupees Days

7 ↓ ↑ 28
10 x

② $\frac{7}{10} = \frac{x}{28}$

③ $28 \times \frac{7}{10} = x$ 9.5 IIII days
 $\frac{196}{10} = 19.5 IIII days$

Thus, if he spends 3 rupee more per days his money will last around 19.5 IIII days

Partnership ratio

Q 1 Two partners, Ahmad and Saad, invested in a business in the ratio 6:4. They earned a profit of RS. 36,000. Find each partner's share.

Formula

Sol:

$$\text{Share} = \frac{\text{Ratio of that person}}{\text{Sum of ratios}} \times \text{T.P}$$

① A:S = 6:4

② Ahmad's share $\frac{6}{10} \times 36,000$ $\rightarrow 3600$

③ $3600 \times 6 = 21600$ / - Share of Ahmad

④ Saad's share $\frac{4}{10} \times 36,000$ $\rightarrow 3600$

⑤ $3600 \times 4 = 14400$ / - Share of Saad.

4

Q#2 A and B invested RS. 8000 and 6000 respectively. At the end of the year, they earned a profit of RS. 28,000. Determine each partner's share.

① A:B invested RS. 8000, RS. 6000

② Conversion into ratio

$$\frac{8000}{6000} \rightarrow A:B = 8:6$$

③ Finding share $\rightarrow 2000$

$$A = \frac{8}{14} \times 28000$$

④ $2000 \times 8 = 16000/-$ is the share

of

A

⑤

$$B = \frac{6}{14} \times 28000$$

⑥

$2000 \times 6 = 12000/-$ share

of

B.

Write final answers in the form of statements.