



Ratio and Proportion Ex 9.1 Q11

Answer :

We have

Sum of the terms of the ratio = $2 + 3 + 5 = 10$

Therefore, P's share = $\text{Rs} \left(\frac{2}{10} \times 2000 \right) = \text{Rs } 400$

Q's share = $\text{Rs} \left(\frac{3}{10} \times 2000 \right) = \text{Rs } 600$

R's share = $\text{Rs} \left(\frac{5}{10} \times 2000 \right) = \text{Rs } 1000$

Ratio and Proportion Ex 9.1 Q12

Answer :

We have the ratio boys : girls = $7 : 4$.

So, let there be $7x$ boys and $4x$ girls. It is given that there are a total of 550 students in the school.

Therefore, $7x + 4x = 550$

$$11x = 550$$

$$x = \frac{550}{11} = 50$$

Hence, the number of boys = $7x = 7 \times 50 = 350$, and the number of girls = $4x = 4 \times 50 = 200$.

Ratio and Proportion Ex 9.1 Q13

Answer :

We have the ratio of income : savings = $7 : 2$.

So, let the income be $7x$ and the savings be $2x$. It is given that the savings are Rs 500.

Therefore, $2x = 500$

$$x = \text{Rs } \frac{500}{2} = \text{Rs } 250$$

Thus, the income = $7x = 7 \times 250 = \text{Rs } 1750$.

Now, expenditure = Income — savings = $\text{Rs } 1750 - \text{Rs } 500 = \text{Rs } 1250$.

Thus, the income = Rs 1750, and the expenditure = Rs 1250.

Ratio and Proportion Ex 9.1 Q14

Answer :

We have the ratio of the sides of the triangle = $1 : 2 : 3$.

Now, let the sides of the triangle be x , $2x$ and $3x$, respectively.

Therefore, the perimeter = $x + 2x + 3x = 36$

$$\Rightarrow 6x = 36$$

$$\Rightarrow x = \frac{36}{6} = 6$$

Thus, the sides of the triangle = $x = 6$ cm; $2x = 2 \times 6 = 12$ cm; $3x = 3 \times 6 = 18$ cm.

So, the sides of the triangle = 6 cm, 12 cm and 18 cm.

Ratio and Proportion Ex 9.1 Q15

Answer :

We have

Sum of the terms of the ratio = $2 + 3 = 5$, and the total sum = Rs 5500

Therefore, Raman's share = $\left(\frac{2}{5} \times 5500 \right) = \text{Rs } 2200$

Aman's share = $\left(\frac{3}{5} \times 5500 \right) = \text{Rs } 3300$

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