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 =Rs $\left(\frac{2}{10} \times 2000\right)$ = Rs 400

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

R's share = Rs $\left(\frac{5}{10} \times 2000\right)$ = 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 × 50 = 350, and the number of girls = 4x = 4 × 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 = Rs $\frac{500}{2}$ = Rs 250

Thus, the income = 7x = 7 × 250 = Rs 1750.

Now, expenditure = Income — savings = Rs 1750 — Rs 500 = 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

⇒ 6x = 36

⇒ x = $\frac{36}{6}$ = 6

Thus, the sides of the triangle = x = 6 cm; 2x = 2×6 = 12 cm; 3x = 3 ×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 = $\left(\frac{2}{5} \times 5500\right)$ = Rs 2200

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

********** END **********