



Ratio Proportion and Unitary Method Ex 9.3 Q9

Answer :

Ratio of the length to the width of a school ground = 5 : 2

\therefore Width = 40 m

\therefore Length = $\frac{5}{2} \times 40 = 5 \times 20 = 100$ m

Ratio Proportion and Unitary Method Ex 9.3 Q10

Answer :

Ratio of the sale of eggs on Sunday to that of the whole week = 2 : 9

When total eggs of Rs. 9 is sold in a week, the sale of eggs on Sunday = Rs. 2

When total eggs of Rs. 1 sold in a week, the sale of eggs on Sunday = Rs. $\frac{2}{9}$

When total eggs of Rs. 360 sold in a week, the sale of eggs on Sunday =
 $\frac{2}{9} \times 360 = 2 \times 40 = \text{Rs. } 80$

Ratio Proportion and Unitary Method Ex 9.3 Q11

Answer :

The ratio of copper and zinc in an alloy is 9 : 7.

When the weight of zinc is 7 kg, the weight of copper = 9 kg

When the weight of zinc is 1 kg, the weight of copper = $\frac{9}{7}$ kg

When the weight of zinc is 9.8 kg, the weight of copper = $\frac{9}{7} \times 9.8 = 12.6$ kg

Ratio Proportion and Unitary Method Ex 9.3 Q12

Answer :

The ratio of the income to the expenditure of a family is 7 : 6.

\therefore Ratio of saving to the income = $(7 - 6) : 7 = 1 : 7$ (Saving = Total income — Expenditure)

\therefore Income of the family = Rs. 1400

\therefore Saving = $1400 \times \frac{1}{7} = \text{Rs. } 200$

Ratio Proportion and Unitary Method Ex 9.3 Q13

Answer :

The ratio of story books in a library to other books is 1 : 7.

Out of $(1 + 7) = 8$ books, 1 book is a story book

Therefore,

When number of story books is 1, the total number of books = 8

When number of story books is 800, the total number of books = 8×800
= 6400

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