



Ratio Proportion and Unitary Method Ex 9.4 Q6

**Answer :**

It is given that 10 boys can dig a pitch in 12 hours.

Therefore, time taken by one boy to dig the pitch =  $10 \times 12 = 120$  hours

Thus, time taken by 8 boys to dig the same pitch =  $\frac{120}{8} = 15$  hours

Ratio Proportion and Unitary Method Ex 9.4 Q7

**Answer :**

It is given that a man can work for 8 hours daily and finishes a work in 12 days.

Therefore, time taken by the man to finish the total work =  $8 \times 12 = 96$  hours

If he works for 6 hours daily, the number of days required to finish the total work =  $\frac{96}{6} = 16$  days

Ratio Proportion and Unitary Method Ex 9.4 Q8

**Answer :**

Cost of 15 postcards = Rs. 2.25

Cost of 1 postcard = Rs.  $\frac{2.25}{15}$

Cost of 36 postcards =  $\frac{2.25}{15} \times 36 = \frac{225}{15 \times 100} \times 36 = \text{Rs. } 5.40$

Number of postcards purchased in Rs. 1 =  $\frac{15}{2.25}$

Number of postcards purchased in Rs. 45 =  $\frac{15}{2.25} \times 45 = \frac{15 \times 100}{225} \times 45 = 300$

Ratio Proportion and Unitary Method Ex 9.4 Q9

**Answer :**

Cost of a rail journey of 75 km = Rs. 215

Cost of a rail journey of 1 km = Rs.  $\frac{215}{75}$

Cost of a rail journey of 120 km =  $\frac{215}{75} \times 120 = \text{Rs. } 344$

Ratio Proportion and Unitary Method Ex 9.4 Q10

**Answer :**

Sales tax on a purchase worth Rs. 60 = Rs. 4.20

Sales tax on a purchase worth Rs. 1 = Rs.  $\frac{4.20}{60}$

Sales tax on a purchase worth Rs. 150 =  $\frac{4.20}{60} \times 150 = \frac{420}{60 \times 100} \times 150 = \text{Rs. } 10.50$

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