

## Exercise 9.4

1. The price of 3 meters of cloth = RS 79.50

Let the price of 15m cloth be x

Then,

$$\frac{3}{15} = \frac{79.50}{x}$$

By cross multiplication, we get

$$\Rightarrow 3x = 15 \times 79.50$$

$$\Rightarrow x = \frac{15 \times 79.50}{3}$$

$$\Rightarrow x = 5 \times 79.50$$

$$\Rightarrow x = \text{RS } 397.50.$$

2. cost of 17 chairs = RS 9605

$$\text{cost of one chair} = \frac{\text{RS } 9605}{17} = 565$$

Number of chairs purchased

$$\text{by RS } 56500 = \frac{56500}{565}$$

cost of one chair

$$= \frac{56500}{565}$$

$$= 100 \text{ chairs}$$

solution-03

Three ferry loads carry - 150 people

$$\text{one ferryload carry} = \frac{150}{3} \text{ people}$$

$$= 50 \text{ people.}$$

Number of people can be carried by

$$4 \text{ ferryloads} = 50 \times 4$$

$$= 200 \text{ people.}$$

Solution-04:-

9 Kg rice cost 120.60.

50kg cost = ?

$$\begin{aligned} 1 \text{ Kg Rice cost} &= \frac{120.60}{9} \\ &= 13.4 \end{aligned}$$

$$\begin{aligned} 50 \text{ Kg Rice cost} &= 13.4 \times 50 \\ &= 670 \end{aligned}$$

∴ 50 Kg Rice cost = Rs. 670.

Solution -05

Train runs 200km in 5 hours.

$$\begin{aligned} \text{Train runs in one hour} &= \frac{200}{5} \text{ km} \\ &= 40 \text{ km.} \end{aligned}$$

$$\begin{aligned} \therefore \text{No. of kms does it run in 7 hrs} &= 7 \times 40 \text{ km} \\ &= 280 \text{ km} \end{aligned}$$

Solution-06:-

10 boys can dig a pitch in 12 hours.

8 boys can dig pitch in 2 hrs

one boy can dig pitch in =  $12 \times 10 = 120 \text{ hrs}$

$$\begin{aligned} 8 \text{ boys can dig pitch in} &= \frac{120}{8} \\ &= 15 \text{ hrs.} \end{aligned}$$

Solution-07

Daily 8 hours → work finishes in 12 days.

6 hrs daily → ?

$$\begin{aligned} \text{Daily one hour} &= \frac{12 \times 8}{8} \\ &= 12 \text{ days.} = 96 \text{ days} \end{aligned}$$

$$\begin{aligned} \text{No of days will take 6 hrs daily works} &= \frac{96}{6} \\ &= 16 \text{ days.} \end{aligned}$$