



### Exercise 9C

Q1

**Answer :**

(c) 45.6 kg

Weight of the rod of length 4.5 m = 17.1 kg

Weight of the rod of length 1 m =  $\frac{17.1}{4.5}$  kg [less length, less weight]

$\therefore$  Weight of the rod of length 12 m =  $\frac{17.1}{4.5} \times 12 = 45.6$  kg [more length, more weight]

Q2

**Answer :**

(d) none of these

0.8 cm represents 8.8 km.

1 cm represents  $\frac{8.8}{0.8}$  km.

80.5 cm represents  $\frac{8.8}{0.8} \times 80.5 = 885.5$  km.

Q3

**Answer :**

Distance covered in 20 min = 5 km

Distance covered in 1 min =  $\frac{5}{20}$  km [less time, less distance covered]

Distance covered in 50 min =  $\frac{5}{20} \times 50 = 12.5$  km [more time, more distance covered]

Hence, Raghu will cover a distance of 12.5 km in 50 minutes.

Thus, the correct option is (c).

Q4

**Answer :**

Number of days for which 500 men have enough food = 24

Number of days for which 1 man has enough food =  $24 \times 500$  [less men, more food]

Number of days for which 800 men have enough food =  $\frac{24 \times 500}{800} = 15$  [more men, less food]

Hence, the food will last for 15 days after the reinforcement of 300 men.

Thus, the correct option is (d).

Q5

**Answer :**

Time taken to fill  $\frac{4}{5}$  of a cistern = 1 min

Time taken to fill 1 cistern =  $\frac{5}{4}$  min

Time taken to fill  $\frac{1}{5}$  of a cistern =  $\frac{5}{4} \times \frac{1}{5} = \frac{1}{4}$  min = 15 seconds

Hence, it will take 15 seconds to fill the rest of the cistern.

Thus, the correct option is (b).

Q6

**Answer :**

Number of cows that eat as much as 15 buffaloes = 21

Number of cows that eat as much as 1 Buffalo =  $\frac{21}{15}$

Number of cows that eat as much as 35 buffaloes =  $\frac{21}{15} \times 35 = 49$

Hence, 49 cows will eat as much as 35 buffaloes.

Thus, the correct option is (a).

Q7

**Answer :**

(b) 75 m

Height of the tree that casts a 4 m long shadow = 6 m

Height of the tree that casts a 1 m long shadow =  $\frac{6}{4}$  m

$\therefore$  Height of the flag pole that casts a 50 m long shadow =  $\frac{6}{4} \times 50 = 75$  m

Q8

**Answer :**

8 men finish the work in 40 days.

1 man can finish the work in  $8 \times 40$  days.

[Less men, more days]

10 men can finish the work in  $\frac{8 \times 40}{10} = 32$  days.

[More men, less days]

$\therefore$  If 2 more men join them, the work will be completed in 32 days.

The correct option is (b).

Q9

**Answer :**

\*\*\*\*\* END \*\*\*\*\*