



Exercise 3C

(ii) $(0.05)^3 = 0.05 \times 0.05 \times 0.05$

First, we will find the product $5 \times 5 \times 5$.

Now, $5 \times 5 \times 5 = 125$

Sum of decimal places in the given numbers = $(2 + 2 + 2) = 6$

So, the product must have six decimal places.

$\therefore (0.05)^3 = 0.05 \times 0.05 \times 0.05 = 0.000125$

(iii) $(1.5)^3 = 1.5 \times 1.5 \times 1.5$

First, we will find the product $15 \times 15 \times 15$.

Now, $15 \times 15 \times 15 = 225 \times 15 = 3375$

$$\begin{array}{r} 225 \\ \times 15 \\ \hline 1125 \\ 225 \times \\ \hline 3375 \end{array}$$

Sum of decimal places in the given numbers = $(1 + 1 + 1) = 3$

So, the product must have three decimal places.

$\therefore (1.5)^3 = 1.5 \times 1.5 \times 1.5 = 3.375$

Q9

Answer :

Distance covered by the bus in 1 hour = 62.5 km

\therefore Distance covered in 18 hours = (62.5×18) km
= 1125 km

Hence, the bus can cover a distance of 1125 km in 18 hours.

Q10

Answer :

Weight of 1 tin of oil = 16.8 kg

$$\begin{aligned}\therefore \text{Weight of 45 such tins} &= (16.8 \times 45) \text{ kg} \\ &= 756 \text{ kg}\end{aligned}$$

Hence, the weight of 45 tins of oil is 756 kg.

Q11

Answer :

Weight of 1 bag of wheat = 97.8 kg

$$\begin{aligned}\therefore \text{Weight of 500 such bags} &= (97.8 \times 500) \text{ kg} \\ &= 48900 \text{ kg}\end{aligned}$$

Hence, the weight of 500 bags of wheat is 48900 kg.

Q12

Answer :

Weight of 1 bag of sugar = 48.450 kg

$$\begin{aligned}\therefore \text{Weight of 16 bags of sugar} &= (48.450 \times 16) \text{ kg} \\ &= 775.2 \text{ kg}\end{aligned}$$

$$\begin{array}{r} 48450 \\ \times 16 \\ \hline 290700 \\ 48450 \times \\ \hline 775200 \end{array}$$

Hence, the weight of 16 bags of sugar is 775.2 kg.

Q13

Answer :

Capacity of 1 sauce bottle = 0.845 kg

$$\begin{aligned}\therefore \text{Capacity of 72 such bottles} &= (0.845 \times 72) \text{ kg} \\ &= 60.84 \text{ kg}\end{aligned}$$

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