



Decimals Ex 3.3 Q12

Answer :

Length of each side of the polygon = 2.5 cm

Perimeter of the polygon = 12.5 cm

Let the number of sides of the polygon be z .

$\therefore 2.5 \times z = 12.5$ (Perimeter = Length of one side multiplied by the number of sides)

$$\text{or, } z = \frac{12.5}{2.5} \\ = 5$$

Thus, the polygon has 5 sides.

Decimals Ex 3.3 Q13

Answer :

One decimal is 12.46.

Let the other decimal be x .

According to the question:

$$12.46 \times x = 42.987$$

$$\begin{aligned} x &= \frac{42.987}{12.46} \\ &= \frac{42987 \times 100}{1246 \times 1000} \\ &= \frac{42987}{12460} \\ &= 3.45 \end{aligned}$$

Thus, the other decimal is 3.45.

Decimals Ex 3.3 Q14

Answer :

Number of bags = 34

Weight of 34 bags = 3483.3 kg

$$\begin{aligned}\therefore \text{Weight of one bag} &= \frac{\text{Weight of 34 bags}}{\text{Number of bags}} \\ &= \frac{3483.3}{34} \\ &= \frac{34833}{340} \\ &= 102.45\end{aligned}$$

Thus, weight of each bag = 102.45 kg

Decimals Ex 3.3 Q15

Answer :

Capacity of one bucket = 8.5 litres

Total water in all buckets = 586.5 litres

Let the number of buckets with equal capacity be x .

According to the question:

$$\begin{aligned}8.5 \times x &= 586.5 \\ x &= \frac{586.5}{8.5} \\ &= \frac{5865}{85} \\ &= 69\end{aligned}$$

Thus, there are 69 buckets.

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