

EXERCISE 11.4

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1. Find each of the following:

(i) 7% of Rs 7150

(ii) 40% of 400kg

(iii) 20% of 15.125liters

(iv) $3\frac{1}{3}$ % of 90km

(v) 2.5% of 600meters

Solution:

(i) Given 7% of Rs 7150

$$= \left(\frac{7}{100}\right) \times 7150$$

$$= \text{Rs } 500.50$$

(ii) Given 40% of 400kg

$$= \left(\frac{40}{100}\right) \times 400$$

$$= 160\text{kg}$$

(iii) Given 20% of 15.125liters

$$= \left(\frac{20}{100}\right) \times 15.125$$

$$= 3.025\text{liters}$$

(iv) Given $3\frac{1}{3}$ % of 90km

We know that $3\frac{1}{3} = \left(\frac{10}{3}\right)$

$$= \left(\frac{10}{300}\right) \times 90$$

$$= 3\text{km}$$

(v) Given 2.5% of 600 meters

$$= \left(\frac{2.5}{100}\right) \times 600$$

$$= 15 \text{ meters}$$

2. Find the number whose $12\frac{1}{2}$ % is 64.

Solution:

Let the required number be x

Then according to the question, $12\frac{1}{2}\% \times x = 64$

$$= 12.5\% \times x = 64$$

$$= (12.5/100) \times x = 64$$

$$x = (64 \times 100)/12.5$$

$$x = 64 \times 8 = 512$$

Therefore 512 is the number whose $12\frac{1}{2}\%$ is 64.

3. What is the number, $6\frac{1}{4}\%$ of which is 2?

Solution:

Let the required number be x

Then according to the question, $6\frac{1}{4}\% \times x = 2$

$$= 6.25\% \times x = 2$$

$$= (6.25/100) \times x = 2$$

$$x = (2 \times 100)/6.25$$

$$x = 2 \times 16 = 32$$

Therefore 32 is the number whose $6\frac{1}{4}\%$ is 2.

4. If 6 is 50% of a number, what is that number?

Solution:

Let the required number be x

Given that 50% of $x = 6$

$$(50/100) \times x = 6$$

$$x = (6 \times 100)/50$$

$$x = 12$$

The required number is 12