Question 1.

Find the value of:

(i) 18% of ₹450 (ii) 14% of
$$16\frac{2}{3}$$
 kg

(iii)
$$27\frac{3}{4}$$
% of ₹1200 (iv) $\frac{5}{8}$ % of 600 m

(v)
$$6\frac{1}{6}$$
% of 1 hour 20 minutes

(vi) 0.6% of 5 km

Solution:

(i) 18% of ₹450

$$= ₹ \left(\frac{18}{100} \times 450\right) = ₹ \left(\frac{8}{5} \times 45\right)$$
$$= ₹ (8 \times 9) = ₹81$$

(ii) 14% of
$$16\frac{2}{3}$$
 kg

$$= kg \left(\frac{14}{100} \times \frac{50}{3} \right) = \frac{7}{3} = 2\frac{1}{3} kg$$

(iii) 27
$$\frac{3}{4}$$
 % of ₹1200

$$=$$
₹ $\left(\frac{111}{4 \times 100} \times 1200\right) = \frac{133200}{400} = ₹333$

(iv)
$$\frac{5}{8}$$
% of 600 m

$$= m \left(\frac{5}{8 \times 100} \times 600 \right) = \frac{3000}{800} = 3.75 \text{ m}$$

(v) $6\frac{1}{6}\%$ of 1 hour 20 minutes

1 hour 20 minutes = 80 minutes

$$=$$
 $\left(\frac{37}{6 \times 100} \times 80\right)$ min. = 5 minutes

(vi) 0.6% of 5 km

5 km = 5000 metres

$$= \left(\frac{6}{10 \times 100} \times 5000\right) \text{ metres} = 30 \text{ metres}$$

Question 2.

In a class of 60 student, 45% are girls. Find the number of boys in the class.

Solution:

Total student = 60

% of girls = 45%

No. of boys = ?

No. of girls =
$$60 \times \frac{45}{100} = \frac{6 \times 45}{10} = 27$$
 girls

No. of boys = Total students - No. of girls = 60 - 27

= 33 boys

Question 3.

Mr. Malkani saves 22% of his salary every month. If his salary is ₹ 12750 per month, what is his expenditure?

Solution:

Total salary = ₹ 12750

Saving = 22%

.. Total savings = 22% of ₹ 12750

= ₹ 12750 ×
$$\frac{22}{100}$$
 = ₹2805

: Total expenditure = ₹ 12750 - ₹2805 = ₹9945

Question 4.

On a rainy day, 94% of the students were present in a school, if the number of students absent on that day was 174, find the total strength of the school.

Solution:

Total % age of students = 100

Student present = 94%

Students absent = (100-94) = 6%

Let, the total number of students in school = x

$$6\% \text{ of } x = 174 \Rightarrow \frac{6}{100} \times x = 174$$

$$\Rightarrow x = 174 \times \frac{100}{6} \Rightarrow x = 29 \times 100 = 2900$$

∴ Total strength of the school = 2900