



Percentage Ex 12.2 Q1

Answer :

$$\begin{aligned} \text{(i)} \quad 22\% \text{ of } 120 &= \frac{22}{100} \times 120 \\ &= 26.4 \end{aligned}$$

$$\begin{aligned} \text{(ii)} \quad 25\% \text{ of } 1000 &= \frac{25}{100} \times 1000 \\ &= 250 \end{aligned}$$

$$\begin{aligned} \text{(iii)} \quad 25\% \text{ of } 10 \text{ kg} &= \frac{25}{100} \times 10 \text{ kg} \\ &= \frac{25}{10} \text{ kg} = \frac{5}{2} \text{ kg} \\ &= 2.5 \text{ kg} \end{aligned}$$

$$\begin{aligned} \text{(iv)} \quad 16.5\% \text{ of } 5000 \text{ m} &= \frac{16.5}{100} \times 5000 \text{ m} \\ &= 16.5 \times 50 \text{ m} \\ &= 825 \text{ m} \end{aligned}$$

$$\begin{aligned} \text{(v)} \quad 135\% \text{ of } 80 \text{ cm} &= \frac{135}{100} \times 80 \text{ cm} \\ &= \frac{135 \times 8}{10} \text{ cm} \\ &= 108 \text{ cm} = 1.08 \text{ m} \end{aligned}$$

$$\begin{aligned} \text{(vi)} \quad 2.5\% \text{ of } 10000 \text{ ml} &= \frac{2.5}{100} \times 10000 \text{ ml} \\ &= 250 \text{ ml} \end{aligned}$$

Percentage Ex 12.2 Q2

Answer :

$$\text{(i)} \quad 8.4\% \text{ of } a \text{ is } 42.$$

$$\text{i.e., } \frac{8.4}{100} \times a = 42$$

$$\Rightarrow a = \frac{42 \times 100}{8.4}$$

$$\therefore a = 500$$

$$\text{(ii) } 0.5\% \text{ of } a \text{ is } 3.$$

$$\text{i.e., } \frac{0.5}{100} \times a = 3$$

$$\Rightarrow a = \frac{3 \times 100}{0.5}$$

$$\therefore a = 600$$

$$\text{(iii) } \frac{1}{2} \% \text{ of } a \text{ is } 50.$$

$$\text{i.e., } \frac{1}{2} \times \frac{1}{100} \times a = 50$$

$$\Rightarrow a = 50 \times 200$$

$$\therefore a = 10000$$

$$\text{(iv) } 100\% \text{ of } a \text{ is } 100.$$

$$\text{i.e., } \frac{100}{100} \times a = 100$$

$$\Rightarrow 1 \times a = 100$$

$$\therefore a = 100$$

Answer :

Given :

$$x = \frac{5}{100} y$$

$$\Rightarrow y = \frac{100}{5} x$$

$$\therefore y = 20x$$

$$\text{Also, } y = \frac{24}{100} z$$

$$\therefore z = \frac{100}{24} y$$

Putting $x = 480$ in the above equations, we get :

$$y = 20(480) = 9600$$

$$z = \frac{100}{24} \times 9600 = 40000$$

***** END *****