Fractions Ex 2.2 Q5

Answer :

$\frac{1}{2}$ of $\frac{6}{7} = \frac{1}{2} \times \frac{6}{7} = \frac{6}{14}$

$\frac{2}{3}$ of $\frac{3}{7} = \frac{2}{3} \times \frac{3}{7} = \frac{2}{7}$

convert $\frac{2}{7}$ to its equivalent fraction with denominator as 14

$\frac{2}{7} = \frac{2}{7} \times \frac{2}{2} = \frac{4}{14}$

we know $6 > 4$

$\Rightarrow \frac{6}{14} > \frac{2}{7}$

$\Rightarrow \frac{1}{2}$ of $\frac{6}{7} > \frac{2}{3}$ of $\frac{3}{7}$

Fractions Ex 2.2 Q6

Answer :

(i) $\frac{7}{11}$ of Rs 330 $= \frac{7 \times 330}{11}$

$\Rightarrow$ Rs 210

(ii) $\frac{5}{9}$ of 108 metres $= \frac{5}{9} \times 108$

$\Rightarrow$ 60 metres

(iii) $\frac{3}{7}$ of 42 litres $= \frac{3}{7} \times 42$

$\Rightarrow$ 18 litres

(iv) $\frac{1}{12}$ of 1 hour $= \frac{1}{12} \times 1$

$\Rightarrow \frac{1}{12}$ hour

1 hour $= 60$ minutes

$\Rightarrow \frac{1}{12}$ hour $= \frac{1}{12} \times 60 = 5$ minutes

(v) $\frac{5}{6}$ of 1 year $= \frac{5}{6} \times 1$

$\Rightarrow \frac{5}{6}$ year

1 year $= 12$ months

$\Rightarrow \frac{5}{6}$ year $= \frac{5}{6} \times 12 = 10$ months

(vi) $\frac{3}{20}$ of 1 kg $= \frac{3}{20} \times 1$

$\Rightarrow \frac{3}{20}$ kg

1 kg $= 1000$ g

$$\Rightarrow \frac{3}{20} \ kg = \frac{3}{20} \times 1000 = 150 \ g$$

$(vii)\ \frac{7}{20}$ of 1 litre $= \frac{7}{20} \times 1$

$$\Rightarrow \frac{7}{20} \ litre$$

$$1 \ l = 1000 \ ml$$

$$\Rightarrow \frac{7}{20} \ litre = \frac{7}{20} \times 1000 = 350 \ ml$$

$(viii)\ \frac{5}{6}$ of 1 day $= \frac{5}{6} \times 1$

$$\Rightarrow \frac{5}{6} \ day$$

$$1 \ day = 24 \ hours$$

$$\Rightarrow \frac{5}{6} \ day = \frac{5}{6} \times 24 = 20 \ hours$$

$(ix)\ \frac{2}{7}$ of 1 week $= \frac{2}{7} \times 1$

$$\Rightarrow \frac{2}{7} \ week$$

$$1 \ week = 7 \ days$$

$$\Rightarrow \frac{2}{7} \ week = \frac{2}{7} \times 7 = 2 \ days$$

Fractions Ex 2.2 Q7

Answer :

Distance between the first and second saplings $= \frac{3}{4}$ m

Distance between the first and third saplings $= 2 \times \frac{3}{4}$ m $= \frac{3}{2}$ m

Distance between the first and fourth saplings $= 3 \times \frac{3}{4}$ m $= \frac{9}{4}$ m

Fractions Ex 2.2 Q8

Answer :

$2\frac{1}{5}$ hours $= \frac{(2 \times 5) + 1}{5} = \frac{11}{5}$ hours

In 1 hour Ravish reads $\frac{1}{3}$ of the book

Part of book Ravish will read in $\frac{11}{5}$ hours = Part read in 1 hour $\times \frac{11}{5}$

Part of book Ravish will read in $\frac{11}{5}$ hours $= \frac{1}{3} \times \frac{11}{5} = \frac{11}{15}$

********** END *********