

Fractions Ex 2.2 Q5 Answer:

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

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

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 know6 > 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

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

$$\left(v\right) \, rac{5}{6} \, of \, 1 \, year = rac{5}{6} imes 1$$

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

 $1 \ year = 12 \ months$

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

$$\left(vi\right) \, rac{3}{20} \, of \, 1 \, kg = rac{3}{20} imes 1$$

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

$$1 kg = 1000 g$$

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

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

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

$$1 \ l = 1000 \ ml$$

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

$$\left(vii\right) \frac{5}{6} \ of \ 1 \ day = \frac{5}{6} \times 1$$

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

$$1 \ day = 24 \ hours$$

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

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

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

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 = $3 imes \frac{3}{4} \ m = \frac{9}{4} \ m$

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 = $\frac{1}{3} \times \frac{11}{5} = \frac{11}{15}$

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