



Fractions Ex 2.3 Q4

Answer :

(i)

$$\frac{3}{10} \div \frac{10}{3} = \frac{3}{10} \times \frac{3}{10} \Leftrightarrow \frac{3 \times 3}{10 \times 10}$$

$$\Rightarrow \frac{9}{100}$$

(ii)

$$4\frac{3}{5} \div \frac{4}{5} = \frac{(4 \times 5) + 3}{5} \div \frac{4}{5}$$

$$\Rightarrow 4\frac{3}{5} \div \frac{4}{5} = \frac{23}{5} \div \frac{4}{5} \Leftrightarrow \frac{23}{5} \times \frac{5}{4}$$

$$\Rightarrow \frac{23}{4} = 5\frac{3}{4}$$

(iii)

$$5\frac{4}{7} \div 1\frac{3}{10} = \frac{(5 \times 7) + 4}{7} \div \frac{(1 \times 10) + 3}{10}$$

$$\Rightarrow 5\frac{4}{7} \div 1\frac{3}{10} = \frac{39}{7} \div \frac{13}{10} \Leftrightarrow \frac{\cancel{39}^3}{7} \times \frac{10}{\cancel{13}_1}$$

$$\Rightarrow \frac{30}{7} = 4\frac{2}{7}$$

(iv)

$$4 \div 2\frac{2}{5} = \frac{4}{1} \div \frac{(2 \times 5) + 2}{5} \Leftrightarrow \frac{\cancel{4}_2}{1} \times \frac{5}{\cancel{12}_6}$$

$$\Rightarrow \frac{5}{3} = 1\frac{2}{3}$$

Fractions Ex 2.3 Q5

Answer :

$$12\frac{1}{2} \text{ m} = \frac{(12 \times 2) + 1}{2} \text{ m} \\ = \frac{25}{2} \text{ m}$$

$$\text{Length of one piece} = \frac{\text{Length of wire}}{10} = \frac{25}{2} \times \frac{1}{10} = \frac{25}{20}$$

$$\text{Length of one piece} = \frac{\cancel{25}^5}{\cancel{20}^4} = \frac{5}{4} \text{ m}$$

Fractions Ex 2.3 Q6

Answer :

Area of rectangle = Length of rectangle \times Width of rectangle

$$65\frac{1}{3} = 12\frac{1}{4} \times \text{Width of the rectangle}$$

$$\frac{(65 \times 3) + 1}{3} = \left[\frac{(12 \times 4) + 1}{4} \right] \times \text{Width of the rectangle}$$

$$\frac{196}{3} = \frac{49}{4} \times \text{Width of the rectangle}$$

$$\text{Width of the rectangle} = \frac{\cancel{196}^{49}}{3} \times \frac{4}{\cancel{49}} = \frac{16}{3} \text{ m}$$

Fractions Ex 2.3 Q7

Answer :

Let the required number be x .

According to the question:

$$6\frac{2}{9} \times x = 4\frac{4}{9}$$

$$\frac{(6 \times 9) + 2}{9} \times x = \frac{(4 \times 9) + 4}{9}$$

$$\frac{56}{9} \times x = \frac{40}{9}$$

$$x = \frac{40}{\cancel{9}} \times \frac{\cancel{9}}{56}$$

$$x = \frac{40}{56} = \frac{5}{7}$$

Answer :

Let the required number be x .

According to the question:

$$6\frac{2}{3} \times x = 25\frac{5}{6}$$

$$\frac{(6 \times 3) + 2}{3} \times x = \frac{(25 \times 6) + 5}{6}$$

$$\frac{20}{3} \times x = \frac{155}{6}$$

$$x = \frac{3}{20} \times \frac{155}{6} = \frac{\cancel{3} \times \cancel{155}^{31}}{\cancel{20}^4 \times \cancel{6}^2} = \frac{31}{8}$$

$$= 3\frac{7}{8}$$

***** END *****