



Fractions Ex 2.2 Q1

**Answer :**

(i)

$$\frac{7}{11} \times \frac{3}{5} = \frac{7 \times 3}{11 \times 5}$$
$$\Rightarrow \frac{21}{55}$$

(ii)

$$\frac{3}{5} \times 25 = \frac{3 \times 25}{5 \times 1}$$
$$\Rightarrow \frac{75}{5} \Leftrightarrow 15$$

(iii)

$$\left[ 3 \frac{4}{15} \right] \times 24$$
$$\left[ \frac{(3 \times 15) + 4}{15} \right] \times 24 = \frac{49 \times 24}{15 \times 1}$$
$$\Rightarrow \frac{392}{5} = 78 \frac{2}{5}$$

(iv)

$$\left[ 3 \frac{1}{8} \right] \times \left[ 4 \frac{10}{11} \right]$$
$$\left[ \frac{(3 \times 8) + 1}{8} \right] \times \left[ \frac{(4 \times 11) + 10}{11} \right] = \frac{25 \times 54}{8 \times 11}$$
$$\Rightarrow \frac{1350}{88} \Leftrightarrow \frac{675}{44} = 15 \frac{15}{44}$$

Fractions Ex 2.2 Q2

**Answer :**

(i)

$$\frac{4}{7} \times \frac{14}{25} = \frac{4 \times 14}{7 \times 25}$$
$$\Rightarrow \frac{8}{25}$$

(ii)

$$7\frac{1}{2} \times 2\frac{4}{15} \Leftrightarrow \frac{(7 \times 2) + 1}{2} \times \frac{(2 \times 15) + 4}{15}$$
$$\Rightarrow \frac{15}{2} \times \frac{34}{15} \Leftrightarrow \frac{17}{1}$$

(iii)

$$3\frac{6}{7} \times 4\frac{2}{3} \Leftrightarrow \frac{(3 \times 7) + 6}{7} \times \frac{(4 \times 3) + 2}{3}$$
$$\Rightarrow \frac{\cancel{27}^9}{\cancel{7}} \times \frac{\cancel{14}^2}{\cancel{3}} \Leftrightarrow \frac{18}{1}$$

(iv)

$$6\frac{11}{14} \times 3\frac{1}{2} \Leftrightarrow \frac{(14 \times 6) + 11}{14} \times \frac{(3 \times 2) + 1}{2}$$
$$\Rightarrow \frac{95}{\cancel{14}^2} \times \frac{\cancel{7}}{2} \Leftrightarrow \frac{95}{4}$$

**Answer :**

(i)

$$\frac{12}{25} \times \frac{15}{28} \times \frac{35}{36} \Leftrightarrow \frac{\cancel{12}^3 \times \cancel{15}^3 \times \cancel{35}^5}{\cancel{25}^5 \times \cancel{28}^4 \times \cancel{36}^3}$$
$$\Rightarrow \frac{\cancel{3} \times \cancel{3}}{\cancel{3} \times 4 \times \cancel{3}} \Leftrightarrow \frac{1}{4}$$

(ii)

$$\frac{10}{27} \times \frac{39}{56} \times \frac{28}{65} \Leftrightarrow \frac{\cancel{10} \times \cancel{39}^3 \times \cancel{28}}{\cancel{27}^9 \times \cancel{56}^7 \times \cancel{65}^5}$$
$$\Rightarrow \frac{1}{9}$$

(iii)

$$2\frac{2}{17} \times 7\frac{2}{9} \times 1\frac{33}{52} \Leftrightarrow \frac{(2 \times 17) + 2}{17} \times \frac{(7 \times 9) + 2}{9} \times \frac{(52 \times 1) + 33}{52}$$
$$\Leftrightarrow \frac{\cancel{26}^5 \times \cancel{65}^5 \times \cancel{85}^5}{\cancel{17} \times \cancel{9} \times \cancel{52}^4}$$
$$\Rightarrow \frac{25}{1}$$

Fractions Ex 2.2 Q4

**Answer :**

$$\left( \text{i} \right) \frac{1}{2} \text{ of } 4 \frac{2}{9}$$

$$= \frac{1}{2} \times \left( 4 \frac{2}{9} \right)$$

$$= \frac{1}{2} \times \frac{(4 \times 9) + 2}{9} = \frac{1 \times 38}{2 \times 9}$$

$$= \frac{19}{9} = 2 \frac{1}{9}$$

$$\left( \text{ii} \right) \frac{5}{8} \text{ of } 9 \frac{2}{3}$$

$$= \frac{5}{8} \times \left( 9 \frac{2}{3} \right)$$

$$= \frac{5}{8} \times \frac{(9 \times 3) + 2}{3} = \frac{5 \times 29}{8 \times 3}$$

$$= \frac{145}{24} = 6 \frac{1}{24}$$

$$\left( \text{iii} \right) \frac{2}{3} \text{ of } \frac{9}{16} = \frac{2 \times 9}{3 \times 16}$$

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

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