

Fractions Ex 2.2 Q1

Answer:

$$\frac{7}{11} \times \frac{3}{5} = \frac{7 \times 3}{11 \times 5}$$

$$\Rightarrow \frac{21}{55}$$

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

(iii)
$$\begin{bmatrix} 3 \frac{4}{15} \end{bmatrix} \times 24$$

$$\begin{bmatrix} \frac{(3 \times 15) + 4}{15} \end{bmatrix} \times 24 = \frac{49 \times 24}{15 \times 1}$$

$$\Rightarrow \frac{392}{5} = 78 \frac{2}{5}$$

(iv)
$$\begin{bmatrix} 3\frac{1}{8} \end{bmatrix} \times \begin{bmatrix} 4\frac{10}{11} \end{bmatrix}$$
$$\begin{bmatrix} \frac{(3\times8)+1}{8} \end{bmatrix} \times \begin{bmatrix} \frac{(4\times11)+10}{11} \end{bmatrix} = \frac{25\times54}{8\times11}$$
$$\Rightarrow \frac{1350}{88} \Leftrightarrow \frac{675}{44} = 15\frac{15}{44}$$

Answer:

(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)
$$3\frac{6}{7} \times 4\frac{2}{3} \Leftrightarrow \frac{(3\times 7)+6}{7} \times \frac{(4\times 3)+2}{3}$$

$$\Rightarrow \frac{\cancel{\cancel{\cancel{Y}}}^{9}}{\cancel{\cancel{\cancel{Y}}}} \times \frac{\cancel{\cancel{\cancel{\cancel{Y}}}}^{2}}{\cancel{\cancel{\cancel{\cancel{Y}}}}} \Leftrightarrow \frac{18}{1}$$
(iv)
$$6\frac{11}{14} \times 3\frac{1}{2} \Leftrightarrow \frac{(14\times 6)+11}{14} \times \frac{(3\times 2)+1}{2}$$

$$\Rightarrow \frac{95}{\cancel{\cancel{\cancel{Y}}}} \times \frac{\cancel{\cancel{\cancel{Y}}}}{2} \Leftrightarrow \frac{95}{4}$$

Fractions Ex 2.2 Q3

Answer:

(i)
$$\frac{12}{25} \times \frac{15}{28} \times \frac{35}{36} \Leftrightarrow \frac{\cancel{\cancel{2}} \times \cancel{\cancel{1}} \times \cancel{\cancel{3}} \times \cancel{\cancel{3}} \times \cancel{\cancel{3}}}{\cancel{\cancel{2}} \times \cancel{\cancel{3}} \times \cancel{\cancel{3}}} \Leftrightarrow \frac{\cancel{\cancel{3}} \times \cancel{\cancel{3}}}{\cancel{\cancel{3}} \times \cancel{\cancel{4}} \times \cancel{\cancel{3}}} \Leftrightarrow \frac{1}{4}$$

(ii)
$$\frac{10}{27} \times \frac{39}{56} \times \frac{28}{65} \Leftrightarrow \frac{\cancel{\cancel{M}} \times \cancel{\cancel{M}}^{\cancel{\cancel{N}}^{1}} \times \cancel{\cancel{M}}}{\cancel{\cancel{\cancel{M}}^{9}} \times \cancel{\cancel{\cancel{M}}^{\cancel{\cancel{N}}^{1}}} \times \cancel{\cancel{\cancel{M}}^{\cancel{\cancel{N}}^{2}}}}$$

$$\Rightarrow \frac{1}{9}$$
(iii)
$$2 \frac{2}{17} \times 7 \frac{2}{9} \times 1 \frac{33}{52} \Leftrightarrow \frac{(2 \times 17) + 2}{17} \times \frac{(7 \times 9) + 2}{9} \times \frac{(52 \times 1) + 33}{52}$$

$$\Leftrightarrow \frac{\cancel{\cancel{\cancel{M}}} \times \cancel{\cancel{\cancel{N}}} \times \cancel{\cancel{\cancel{M}}} \times \cancel{\cancel{\cancel{M}}}}{\cancel{\cancel{\cancel{M}}} \times \cancel{\cancel{\cancel{N}}} \times \cancel{\cancel{\cancel{M}}} \times$$

Fractions Ex 2.2 Q4

Answer:

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