

## Fractions Ex 6.5 Q4

Answer:

$$\frac{3}{5} = \frac{9}{2}$$

Consider the numerators.

As  $3\times 3=9$ , we will multiply both the numerator & denominator by 3.  $\Rightarrow \frac{3}{5}\times \frac{3}{3}=\frac{9}{15}$ 

$$\frac{3}{5} = \frac{3}{30}$$

Consider the denominators.

As  $5 \times 6 = 30$ , we will multiply both the numerator & denominator by 6.  $\Rightarrow \frac{3}{5} \times \frac{6}{6} = \frac{18}{30}$ 

$$\frac{3}{5} = \frac{21}{5}$$

Consider the numerators.

As  $3 \times 7 = 21$ , we will multiply both the numerator & denominator by 7.  $\Rightarrow \frac{3}{5} \times \frac{7}{7} = \frac{21}{35}$ 

$$\frac{\text{(iv)}}{\frac{3}{5}} = \frac{}{40}$$

Consider the denominators.

As  $5 \times 8 = 40$ , we will multiply both the numerator & denominator by 8.  $\Rightarrow \frac{3}{5} \times \frac{8}{8} = \frac{24}{40}$ 

## Fractions Ex 6.5 Q5

Answer:

$$\frac{\binom{\mathsf{i}}{\mathsf{b}}}{\frac{\mathsf{45}}{\mathsf{60}}} = \frac{15}{\mathsf{Denominator}}$$

We will consider the numerators.

As  $45 \div 3 = 15$ , we will divide both the numerator & denominator by 3.

$$\Rightarrow \left(\frac{\frac{45}{3}}{\frac{60}{3}}\right) = \frac{15}{20}$$

$$\frac{45}{60} = \frac{\text{Numerator}}{4}$$

We will consider the denominators.

As  $60 \div 15 = 4$ , we will multiply both the numerator & denominator by 15.

$$\Rightarrow \left(\frac{\frac{45}{15}}{\frac{60}{15}}\right) = \frac{3}{4}$$

$$\frac{45}{60} = \frac{\text{Numerator}}{240}$$

We will consider the denominators.

As  $60 \times 4 = 240$ , we will multiply both the numerator & denominator by 4.  $\Rightarrow \frac{45}{60} \times \frac{4}{4} = \frac{180}{240}$ 

$$\frac{\text{(iv)}}{60} = \frac{135}{\text{Denominator}}$$

We will consider the numerators.

As  $45 \times 3 = 135$ , we will multiply both the numerator & denominator by 3.  $\Rightarrow \frac{45}{60} \times \frac{3}{3} = \frac{135}{180}$ 

Fractions Ex 6.5 Q6

Answer:

Firstly, we will reduce  $\frac{35}{42}$  into the lowest term.

Now, we will divide both the numerator & denominator by the HCFs of 35 & 42.

$$\Rightarrow \frac{35 \div 7}{42 \div 7} = \frac{5}{6}$$

$$(i) \frac{5}{6} = \frac{15}{\text{Denominator}}$$

(i)  $\frac{5}{6} = \frac{15}{\text{Denominator}}$ We will consider the numerators. As  $5 \times 3 = 15$ , we will multiply both the numerator & denominator by 3.

$$\Rightarrow \frac{5\times3}{6\times3} = \frac{15}{18}$$

$$\left(ii\right)\frac{5}{6} = \frac{Numerator}{18}$$

We will consider the denominators. As  $6\times 3=18$ , we will multiply both the numerator & denominator by 3.

$$\Rightarrow \frac{5\times3}{6\times3} = \frac{15}{18}$$

$$\left(iii\right)\frac{5}{6} = \frac{\text{numerator}}{30}$$

We will consider the denominators , Since,  $6\times 5=30$ , therefore multiplying both the numerator & denominator by 5

$$\Rightarrow \frac{5 \times 5}{6 \times 5} = \frac{25}{30}$$

$$\left(iv\right) \frac{5}{6} = \frac{30}{Denominator}$$

We will consider the numerators. As  $5\times 6=30$ , we will multiply both the numerator & denominator by 6.

$$\Rightarrow \frac{5\times6}{6\times6} = \frac{30}{36}$$

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