



## Exercise 1D

Q2

Answer :

(i)

$$\frac{3}{7} \times \frac{-5}{9} = \frac{-5}{9} \times \frac{3}{7}$$

$$\begin{aligned} \text{LHS} &= \frac{3 \times (-5)}{7 \times 9} \\ &= -\frac{15}{63} \end{aligned}$$

Simplifying, we get:

$$\begin{aligned} -\frac{15}{63} &= -\frac{15 \div 3}{63 \div 3} \\ &= -\frac{5}{21} \end{aligned}$$

$$\begin{aligned} \text{RHS} &= \frac{-5}{9} \times \frac{3}{7} \\ &= \frac{(-5) \times 3}{9 \times 7} \\ &= \frac{-15}{63} \end{aligned}$$

Simplifying, we get:

$$\begin{aligned} &= \frac{-15 \div 3}{63 \div 3} \\ &= -\frac{5}{21} \end{aligned}$$

LHS = RHS

(ii)

$$\frac{-8}{7} \times \frac{13}{9} = \frac{13}{9} \times \frac{-8}{7}$$

$$\text{LHS} = \frac{-8}{7} \times \frac{13}{9} = \frac{(-8) \times 13}{7 \times 9} = -\frac{104}{63} \quad \text{RHS} = \frac{13}{9} \times \frac{-8}{7} = \frac{13 \times (-8)}{9 \times 7} = -\frac{104}{63} \quad \text{LHS} = \text{RHS}$$

(iii)

$$\frac{-12}{5} \times \frac{7}{-36} = \frac{7}{-36} \times \frac{-12}{5}$$

$$\text{LHS} = \frac{-12}{5} \times \frac{7}{-36}$$

$$= \frac{(-12) \times 7}{5 \times (-36)}$$

$$= \frac{84}{180}$$

Simplifying, we get:

$$= \frac{84 \div 12}{180 \div 12}$$

$$= \frac{7}{15}$$

$$\text{RHS} = \frac{7}{-36} \times \frac{-12}{5}$$

$$= \frac{7 \times (-12)}{(-36) \times 5}$$

$$= \frac{84}{180}$$

Simplifying, we get:

$$= \frac{84 \div 12}{180 \div 12}$$

$$= \frac{7}{15}$$

$$\text{LHS} = \text{RHS}$$

(iv)

$$-8 \times \frac{-13}{12} = \frac{-13}{12} \times (-8)$$

$$\text{LHS} = -8 \times \frac{-13}{12}$$

$$= \frac{(-8) \times (-13)}{12}$$

$$= \frac{104}{12}$$

Simplifying, we get:

$$= \frac{104 \div 4}{12 \div 4}$$

$$= \frac{26}{3}$$

$$\text{RHS} = \frac{-13}{12} \times (-8)$$

$$= \frac{(-13) \times (-8)}{12}$$

$$= \frac{104}{12}$$

Simplifying, we get:

$$= \frac{104 \div 4}{12 \div 4}$$

$$= \frac{26}{3}$$

LHS = RHS

\*\*\*\*\* END \*\*\*\*\*