

Exercise 1D

Q2

Answer:

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

$$LHS = \frac{3 \times (-5)}{7 \times 9}$$
$$= -\frac{15}{42}$$

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

= $-\frac{15}{63}$
Simplifying, we get:
 $-\frac{15}{63} = -\frac{15 \div 3}{63 \div 3}$
= $-\frac{5}{21}$

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

$$=\frac{(-5)\times}{9\times7}$$

$$=\frac{-15}{60}$$

RHS = $\frac{-5}{9} \times \frac{3}{7}$ = $\frac{(-5) \times 3}{9 \times 7}$ = $\frac{-15}{63}$ Simplifying, we get: = $\frac{-15 \div 3}{63 \div 3}$ = $-\frac{5}{21}$

$$=\frac{-15:3}{63:3}$$

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

LHS = RHS

(ii)

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

$$\begin{array}{l} \frac{-8}{7} \times \frac{13}{9} = \frac{13}{9} \times \frac{-8}{7} \\ \text{LHS} = \frac{-8}{7} \times \frac{13}{9} = \frac{\left(-8\right) \times 13}{7 \times 9} = -\frac{104}{63} \text{ RHS} = \frac{13}{9} \times \frac{-8}{7} = \frac{13 \times \left(-8\right)}{9 \times 7} = -\frac{104}{63} \text{ LHS} = \text{RHS} \end{array}$$

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

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

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

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

Simplifying, we get:

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

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

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

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

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

Simplifying, we get:

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

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

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

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

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

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

Simplifying, we get:

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

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

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

= $\frac{(-13)\times(-8)}{12}$
= $\frac{104}{12}$
Simplifying, we get:

$$= \frac{104 \div 4}{12 \div 4}$$
$$= \frac{26}{3}$$

******* END ******