



#### Exercise 4C

Q1

**Answer :**

$$(i) \quad \frac{12}{7} + \frac{3}{7} = \frac{12+3}{7} = \frac{15}{7}$$

$$(ii) \quad \frac{-2}{5} + \frac{1}{5} = \frac{-2+1}{5} = \frac{-1}{5}$$

(iii)

$$\frac{3}{-8} \times \frac{-1}{-1} = \frac{-3}{8}$$

$$\frac{-3}{8} + \frac{1}{8} = \frac{-3+1}{8} = \frac{-2}{8}$$

(iv)

$$\frac{7}{-11} \times \frac{-1}{-1} = \frac{-7}{11}$$

$$\frac{-5}{11} + \frac{-7}{11} = \frac{-5+(-7)}{11} = \frac{-5-7}{11} = \frac{-12}{11}$$

(v)

$$\frac{-11}{-13} \times \frac{-1}{-1} = \frac{11}{13}$$

$$= \frac{-9}{13} + \frac{11}{13} = \frac{-9+11}{13} = \frac{2}{13}$$

(vi)

$$\frac{-2}{9} + \frac{-5}{9} = \frac{-2-5}{9} = \frac{-7}{9}$$

(vii)

$$\frac{(-17)}{9} + \frac{(-11)}{9} = \frac{-17-11}{9} = \frac{-28}{9}$$

(viii)

$$\frac{5}{-7} \times \frac{-1}{-1} = \frac{-5}{7}$$

$$\frac{-3}{7} + \frac{(-5)}{7} = \frac{-3-5}{7} = \frac{-8}{7}$$

Q2

**Answer :**

$$(i) \frac{-2}{5} + \frac{3}{4}$$

The denominators of the given rational numbers are 5 and 4.

*L.C.M.* of 5 and 4 is 20.

$$\frac{-2}{5} = \frac{(-2) \times 4}{5 \times 4} = \frac{-8}{20}$$

$$\frac{3}{4} = \frac{3 \times 5}{4 \times 5} = \frac{15}{20}$$

$$\text{Now, } \frac{(-8)}{20} + \frac{15}{20} = \frac{-8+15}{20} = \frac{7}{20}$$

$$(ii) \frac{-5}{9} + \frac{2}{3}$$

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