



#### Rational Numbers Ex 1.1 Q4

**Answer :**

(i)

We have  $\frac{-12}{5} + \frac{43}{10}$ .

L.C.M. of the denominators 5 and 10 is 10.

Now, we will express  $\frac{-12}{5}$  in the form in which it takes the denominator 10.

$$\frac{-12 \times 2}{5 \times 2} = \frac{-24}{10}$$

$$\therefore \frac{-12}{5} + \frac{43}{10} = \frac{-24}{10} + \frac{43}{10}$$

$$= \frac{-24+43}{10}$$

$$= \frac{19}{10}$$

$$= 1 \frac{9}{10}$$

(ii)

We have  $\frac{24}{7} + \frac{-11}{4}$ .

L.C.M. of the denominators 7 and 4 is 28.

Now, we will express  $\frac{24}{7}$  and  $\frac{-11}{4}$  in the form in which they take the denominator 28.

$$\frac{24 \times 4}{7 \times 4} = \frac{96}{28}$$

$$\frac{-11 \times 7}{4 \times 7} = \frac{-77}{28}$$

$$\therefore \frac{24}{7} + \frac{-11}{4} = \frac{96}{28} + \frac{-77}{28}$$

$$= \frac{96-77}{28}$$

$$= \frac{19}{28}$$

(iii)

We have  $\frac{-31}{6} + \frac{-27}{8}$ .

L.C.M. of the denominators 6 and 8 is 24.

Now, we will express  $\frac{-31}{6}$  and  $\frac{-27}{8}$  in the form in which they take the denominator 24.

$$\frac{-31 \times 4}{6 \times 4} = \frac{-124}{24}$$

$$\frac{-27 \times 3}{8 \times 3} = \frac{-81}{24}$$

$$\therefore \frac{-31}{6} + \frac{-27}{8} = \frac{-124}{24} + \frac{-81}{24}$$

$$= \frac{-124-81}{24}$$

$$= \frac{-205}{24}$$

$$= -8 \frac{13}{24}$$

(iv)

We have  $\frac{101}{6} + \frac{7}{8}$ .

L.C.M. of the denominators 6 and 8 is 24.

Now, we will express  $\frac{101}{6}$  and  $\frac{7}{8}$  in the form in which they take the denominator 24.

$$\frac{101 \times 4}{6 \times 4} = \frac{404}{24}$$

$$\frac{7 \times 3}{8 \times 3} = \frac{21}{24}$$

$$\therefore \frac{101}{6} + \frac{7}{8} = \frac{404}{24} + \frac{21}{24}$$

$$= \frac{404+21}{24}$$

$$= \frac{425}{24}$$

$$= 17 \frac{17}{24}$$

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