



# Exercise 4C

$$= \frac{-13}{60}$$

(iii)

$$-1 + \frac{7}{-9} + \frac{11}{12}$$

We need a positive denominator.

$$\frac{7}{-9} \times \frac{-1}{-1} = \frac{-7}{9}$$

Now, L.C.M. of 1, 9 and 12 is 36.

$$\frac{-1}{1} = \frac{-1 \times 36}{1 \times 36} = \frac{-36}{36}$$

$$\frac{-7}{9} = \frac{-7 \times 4}{9 \times 4} = \frac{-28}{36}$$

$$\frac{11}{12} = \frac{11 \times 3}{12 \times 3} = \frac{33}{36}$$

$$\frac{-36}{36} + \frac{-28}{36} + \frac{33}{36}$$

$$= \frac{-36-28+33}{36}$$

$$= \frac{-64+33}{36}$$

$$= \frac{-31}{36}$$

$$= \frac{-5}{4}$$

(iv)

$$\frac{-11}{39} + \frac{5}{26} + \frac{2}{1}$$

L.C.M. of 39, 26 and 1 is 78.

3	9,12
3	3,4
2	1,4
2	1,2
	1,1

$$\frac{-11}{39} = \frac{-11 \times 2}{39 \times 2} = \frac{-22}{78}$$

$$\frac{5}{26} = \frac{5 \times 3}{26 \times 3} = \frac{15}{78}$$

$$\frac{2}{1} = \frac{2 \times 78}{1 \times 78} = \frac{156}{78}$$

$$\begin{aligned} \text{Now, } & \frac{-22}{78} + \frac{15}{78} + \frac{156}{78} \\ &= \frac{-22+171}{78} \\ &= \frac{149}{78} \end{aligned}$$

(v)

$$2 + \frac{-1}{2} + \frac{-3}{4}$$

L.C.M. of 2 and 4 is 4.

$$2 = \frac{2 \times 4}{1 \times 4} = \frac{8}{4}$$

$$\frac{-1}{2} = \frac{-1 \times 2}{2 \times 2} = \frac{-2}{4}$$

$$\frac{-3}{4} = \frac{-3 \times 1}{4 \times 1} = \frac{-3}{4}$$

$$\begin{aligned} & \frac{8}{4} + \frac{(-2)}{4} + \frac{(-3)}{4} \\ &= \frac{8-2-3}{4} \\ &= \frac{3}{4} \end{aligned}$$

$$(vi) \frac{-9}{11} + \frac{2}{3} + \frac{-3}{4}$$

L.C.M. of 11, 3 and 4 is 132.

$$\frac{-9}{11} = \frac{-9 \times 12}{11 \times 12} = \frac{-108}{132}$$

$$\frac{2}{3} = \frac{2 \times 44}{3 \times 44} = \frac{88}{132}$$

$$\frac{-3}{4} = \frac{-3 \times 33}{4 \times 33} = \frac{-99}{132}$$

$$\begin{aligned} & \frac{-108}{132} + \frac{88}{132} + \frac{(-99)}{132} \\ &= \frac{-108+88-99}{132} \\ &= \frac{-207+88}{132} = \frac{-119}{132} \end{aligned}$$

13	39,26
3	3,2
2	1,2
	1,1

2	2,4
2	1,2
	1,1

2	11,3,4
2	11,3,2
11	11,3,1
3	1,3,1
	1,1,1

Q5.

Answer :

$$(i) \frac{12}{5} = 2 \frac{2}{5} = 2 + \frac{2}{5}$$

$$(ii) \frac{-11}{7} = \left(-\frac{11}{7}\right) = \left(-1 \frac{4}{7}\right) = -1 + \left(\frac{-4}{7}\right)$$

$$(iii) \frac{-25}{9} = \left(-\frac{25}{9}\right) = \left(-2 \frac{7}{9}\right) = -2 + \left(\frac{-7}{9}\right)$$

$$(iv) \frac{-103}{20} = \left(-\frac{103}{20}\right) = \left(-5 \frac{3}{20}\right) = -5 + \left(\frac{-3}{20}\right)$$

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