Exercise 5F

$\text{L.C.M. of } 4, 8 \text{ and } 12 = \left(2 \times 2 \times 2 \times 3\right) = 24$

$= \frac{(15 + 18 - 14)}{24}$

$\{[24 \div 8 = 3, 3 \times 5 = 15], [24 \div 4 = 6, 6 \times 3 = 18] \text{ and } [24 \div 12 = 2, 2 \times 7 =$

$= \frac{(33 - 14)}{24}$

$= \frac{19}{24}$

Q15

Answer :

We have:

$\frac{2}{1} + \frac{11}{15} - \frac{5}{9}$

$3 \mid 1, 15, 9$

$3 \mid 1, 5, 3$

$5 \mid 1, 5, 1$

$\mid 1, 1, 1$

$\text{L.C.M. of } 15 \text{ and } 9 = \left(3 \times 3 \times 5\right) = 45$

$= \frac{(90 + 33 - 25)}{45}$

$\{[45 \div 1 = 45, 45 \times 2 = 90], [45 \div 15 = 3, 3 \times 11 = 33] \text{ and } [45 \div 9 = 5, 5 \times 5 =$

$= \frac{(90 + 8)}{45} = \frac{98}{45} = 2\frac{8}{45}$

Q16

Answer :

We have:

$5\frac{3}{4} - 4\frac{5}{12} + 3\frac{1}{6}$

$= \frac{23}{4} - \frac{53}{12} + \frac{19}{6}$

$\textbf{L.C.M. of } 4,\ 12 \textbf{ and } 6 = \left(2 \times 2 \times 3\right) = 12$

$2 \mid 4,\ 12,\ 6$

$2 \mid 2,\ 6\ ,\ 3$

$3 \mid 1,\ 2,\ 3$

$2 \mid 1,\ 2,\ 1$

$\mid 1,\ 1,\ 1$

$= \frac{(69 - 53 + 38)}{12}$

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