Exercise 5F

$\{[12 \div 4 = 3, 3 \times 23 = 69], [12 \div 12 = 1, 1 \times 53 = 53]$ and $[12 \div 6 = 2, 2 \times 19 =$

$= \frac{(107-53)}{12} = \frac{54}{12} = \frac{9}{2} = 4\frac{1}{2}$

Q17

Answer :

We have:

$2 + 5\frac{7}{10} - 3\frac{14}{15}$

$= \frac{2}{1} + \frac{57}{10} - \frac{59}{15}$

$5 \mid 1, 10, 15$

$2 \mid 1, 2, 3$

$3 \mid 1, 1, 3$

$\mid 1, 1, 1$

L.C.M. of 10 and 15 $= \left(2 \times 5 \times 3\right) = 30$

$= \frac{(60+171-118)}{30}$

$\{[30 \div 1 = 30, 30 \times 2 = 60], [30 \div 10 = 3, 3 \times 57 = 171]$ and $[30 \div 15 = 2, 2 \times 59$

$= \frac{(231-118)}{30} = \frac{113}{30} = 3\frac{23}{30}$

Q18

Answer :

We have:

$8 - 3\frac{1}{2} - 2\frac{1}{4}$

$= \frac{8}{1} - \frac{7}{2} - \frac{9}{4}$

$2 \mid 1, 2, 4$

$2 \mid 1, 1, 2$

$\mid 1, 1, 1$

L.C.M. of 1, 2 and 4 $= \left(2 \times 2\right) = 4$

$= \frac{(32-14-9)}{4}$

$\{[4 \div 1 = 4, 4 \times 8 = 32], [4 \div 2 = 2, 2 \times 7 = 14]$ and $[4 \div 4 = 1, 1 \times 9 = 9]\}$

$= \frac{(32-23)}{4} = \frac{9}{4} = 2\frac{1}{4}$

Q19

Answer :

We have:

$8\frac{5}{6} - 3\frac{3}{8} + 2\frac{7}{12}$

$= \frac{53}{6} - \frac{27}{8} + \frac{31}{12}$

$2 \mid 6, 8, 12$

$2 \mid 3, 4, 6$

$3 \mid 3, 2, 3$

$2 \mid 1, 2, 1$

$\mid 1, 1, 1$

L.C.M. of 6, 8 and $12 = \left(2 \times 2 \times 2 \times 3\right) = 24$

$= \frac{(212-81+62)}{24}$

$\{[24 \div 6 = 4, 4 \times 53 = 212], [24 \div 8 = 3, 3 \times 27 = 81]$ and $[24 \div 12 = 2, 2 \times 31 =$

$= \frac{(274-81)}{24} = \frac{193}{24} = 8\frac{1}{24}$

Q20

Answer :

We have:

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

$= \frac{37}{6} - \frac{26}{5} + \frac{10}{3}$

$2 \mid 6, 5, 3$

$3 \mid 3, 5, 3$

$5 \mid 1, 5, 1$

$\mid 1, 1, 1$

L.C.M. of 6, 5 and $3 = \left(2 \times 5 \times 3\right) = 30$

$= \frac{(185-156+100)}{30}$

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