

# Mathematics

## Chapter - 2

Day: Friday  
Date: 24<sup>th</sup> April, 2020

### Exercise - 2.1

Ques. 1

(i)  $\frac{2-3}{15}$

L.C.M. of 1 and 5 = 5

$$= \frac{10-3}{5} = \frac{7}{5} = 1\frac{2}{5}$$

(ii)  $\frac{4+7}{18}$

L.C.M. of 1 and 8 = 8

$$= \frac{32+7}{8} = \frac{39}{8} = 4\frac{7}{8}$$

(iii)  $\frac{3+2}{57}$

L.C.M. of 5 and 7 = 35

$$\frac{21+10}{35} = \frac{31}{35}$$

(iv)  $\frac{9}{11} - \frac{4}{15}$

L.C.M. of 11 and 15 =  $11 \times 3 \times 5$   
= 165

$$\frac{135-44}{165} = \frac{91}{165}$$

11	11-15
3	1-15
5	1-5
	1-1

$$v \quad \frac{7}{10} + \frac{2}{5} + \frac{3}{2}$$

L.C.M of 10, 5 and 2 =  $2 \times 5 = 10$

$$\frac{7+4+15}{10}$$

$$\begin{array}{r|l} 2 & 10, 5, 2 \\ 5 & 5, 5, 1 \\ \hline & 1, 1, 1 \end{array}$$

$$= \frac{26}{10} = \frac{13}{5}$$

$$= 2\frac{3}{5}$$

$$vi \quad 2\frac{2}{3} + 3\frac{1}{2}$$

$$\frac{8}{3} + \frac{7}{2}$$

L.C.M of 3 and 2 = 6

$$= \frac{16+21}{6}$$

$$= \frac{37}{6} = 6\frac{1}{6}$$

$$vii \quad 8\frac{1}{2} - 3\frac{5}{8}$$

$$\frac{17}{2} - \frac{29}{8}$$

L.C.M of 2 and 8 =  $2 \times 2 \times 2 = 8$

$$= \frac{68-29}{8} = \frac{39}{8} = 4\frac{7}{8}$$

$$\begin{array}{r|l} 2 & 2, 8 \\ 2 & 1, 4 \\ 2 & 1, 2 \\ \hline & 1, 1 \end{array}$$

Ques 2 Arrange the following in descending order

(i)  $\frac{2}{9}, \frac{2}{3}, \frac{8}{21}$

firstly taking L.C.M 9, 3 and 21

$$\frac{14, 42, 24}{63}$$

Arranging in ascending order

$$\frac{42}{63} > \frac{24}{63} > \frac{14}{63}$$

$$\begin{array}{l|l} 3 & 9, 3, 21 \\ \hline 3 & 3, 1, 7 \\ \hline 7 & 1, 1, 7 \\ \hline & 1, 1, 1 \end{array}$$

$$= 3 \times 3 \times 7 = 63$$

So,

$$\frac{2}{3} > \frac{8}{21} > \frac{2}{9}$$

(ii)

$$\frac{1}{5}, \frac{3}{7}, \frac{7}{10}$$

L.C.M of 5, 7 and 10

$$\frac{14, 30, 49}{70}$$

Arranging in ascending order

$$\frac{49}{70} > \frac{30}{70} > \frac{14}{70}$$

$$\begin{array}{l|l} 5 & 5, 7, 10 \\ \hline 2 & 1, 7, 2 \\ \hline 7 & 1, 7, 1 \\ \hline & 1, 1, 1 \end{array}$$

$$\begin{aligned} \text{L.C.M} &= 5 \times 2 \times 7 \\ &= 70 \end{aligned}$$

So

$$\frac{7}{10} > \frac{3}{7} > \frac{1}{5}$$

Homework: Do these ques. in fair notebook.

*Asif*  
24/04/2020