

# Mathematics

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(Chapter - 7) (Fractions) (Exercise 7.6)

(Class - VI)

## Question 1:

Solve:

(a)  $\frac{2}{3} + \frac{1}{7}$

(b)  $\frac{3}{10} + \frac{7}{15}$

(c)  $\frac{4}{9} + \frac{2}{7}$

(d)  $\frac{5}{7} + \frac{1}{3}$

(e)  $\frac{2}{5} + \frac{1}{6}$

(f)  $\frac{4}{5} + \frac{2}{3}$

(g)  $\frac{3}{4} - \frac{1}{3}$

(h)  $\frac{5}{6} - \frac{1}{3}$

(i)  $\frac{2}{3} + \frac{3}{4} + \frac{1}{2}$

(j)  $\frac{1}{2} + \frac{1}{3} + \frac{1}{6}$

(k)  $1\frac{1}{3} + 3\frac{2}{3}$

(l)  $4\frac{2}{3} + 3\frac{1}{4}$

(m)  $\frac{16}{5} - \frac{7}{5}$

(n)  $\frac{4}{3} - \frac{1}{2}$

## Answer 1:

(a) L.C.M. of 3 and 7 is 21

$$\therefore \frac{2}{3} + \frac{1}{7} = \frac{2 \times 7 + 1 \times 3}{21} = \frac{14 + 3}{21} = \frac{17}{21}$$

(b) L.C.M. of 10 and 15 is 30

$$\therefore \frac{3}{10} + \frac{7}{15} = \frac{3 \times 3 + 7 \times 2}{30} = \frac{9 + 14}{30} = \frac{23}{30}$$

(c) L.C.M. of 9 and 7 is 63

$$\therefore \frac{4}{9} + \frac{2}{7} = \frac{4 \times 7 + 2 \times 9}{63} = \frac{28 + 18}{63} = \frac{46}{63}$$

(d) L.C.M. of 7 and 3 is 21

$$\therefore \frac{5}{7} + \frac{1}{3} = \frac{5 \times 3 + 7 \times 1}{21} = \frac{15 + 7}{21} = \frac{22}{21} = 1\frac{1}{21}$$

(e) L.C.M. of 5 and 6 is 30

$$\therefore \frac{2}{5} + \frac{1}{6} = \frac{2 \times 6 + 5 \times 1}{30} = \frac{12 + 5}{30} = \frac{17}{30}$$

(f) L.C.M. of 5 and 3 is 15

$$\therefore \frac{4}{5} + \frac{2}{3} = \frac{4 \times 3 + 2 \times 5}{15} = \frac{12 + 10}{15} = \frac{22}{15} = 1\frac{7}{15}$$

(g) L.C.M. of 4 and 3 is 12

$$\therefore \frac{3}{4} - \frac{1}{3} = \frac{3 \times 3 - 4 \times 1}{12} = \frac{9 - 4}{12} = \frac{5}{12}$$

(h) L.C.M. of 6 and 3 is 6

$$\therefore \frac{5}{6} - \frac{1}{3} = \frac{5 \times 1 - 2 \times 1}{6} = \frac{5 - 2}{6} = \frac{3}{6} = \frac{1}{2}$$

(i) L.C.M. of 3, 4 and 2 is 12

$$\therefore \frac{2}{3} + \frac{3}{4} + \frac{1}{2} = \frac{2 \times 4 + 3 \times 3 + 1 \times 6}{12} = \frac{6 + 9 + 6}{12} = \frac{23}{12} = 1\frac{11}{12}$$

(j) L.C.M. of 2, 3, and 6 is 6

$$\therefore \frac{1}{2} + \frac{1}{3} + \frac{1}{6} = \frac{1 \times 3 + 1 \times 2 + 1 \times 1}{6} = \frac{3 + 2 + 1}{6} = \frac{6}{6} = 1$$

(k) L.C.M. of 3 and 3 is 3

$$\therefore \frac{4}{3} + \frac{11}{3} = \frac{4 + 11}{3} = \frac{15}{3} = 5$$

(l) L.C.M. of 3 and 4 is 12

$$\therefore \frac{14}{3} + \frac{13}{4} = \frac{14 \times 4 + 13 \times 3}{12} = \frac{56 + 39}{12} = \frac{95}{12} = 7\frac{11}{12}$$

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