Mathematics

Question 1:

Solve:

(a) $\dfrac{2}{3} + \dfrac{1}{7}$ (b) $\dfrac{3}{10} + \dfrac{7}{15}$ (c) $\dfrac{4}{9} + \dfrac{2}{7}$ (d) $\dfrac{5}{7} + \dfrac{1}{3}$ (e) $\dfrac{2}{5} + \dfrac{1}{6}$

(f) $\dfrac{4}{5} + \dfrac{2}{3}$ (g) $\dfrac{3}{4} - \dfrac{1}{3}$ (h) $\dfrac{5}{6} - \dfrac{1}{3}$ (i) $\dfrac{2}{3} + \dfrac{3}{4} + \dfrac{1}{2}$ (j) $\dfrac{1}{2} + \dfrac{1}{3} + \dfrac{1}{6}$

(k) $1\dfrac{1}{3} + 3\dfrac{2}{3}$ (l) $4\dfrac{2}{3} + 3\dfrac{1}{4}$ (m) $\dfrac{16}{5} - \dfrac{7}{5}$ (n) $\dfrac{4}{3} - \dfrac{1}{2}$

Answer 1:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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