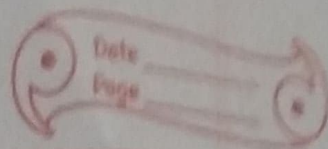


Exw
2.89.2021



Ex 9. B

1 Add

a. $\frac{5}{6} + \frac{7}{12}$

$$\frac{5 \times 2 + 7 \times 1}{12} = \frac{10 + 7}{12} = \frac{17}{12}$$

3	6, 12
2	2, 4
2	1, 2
	1, 1

L.C.M = 12

b. $\frac{4}{5} + \frac{3}{10} + \frac{1}{2}$

$$\frac{4 \times 2 + 3 \times 1 + 1 \times 5}{10}$$

$$\frac{8 + 3 + 5}{10}$$

$$\frac{16}{10}$$

2	5, 10, 2
5	5, 5, 1
	1, 1, 1

L.C.M = 10

$$c \quad \frac{5}{6} + \frac{7}{12} + \frac{5}{24}$$

$$\frac{5 \times 4 + 7 \times 2 + 5 \times 1}{24}$$

$$\frac{20 + 14 + 5}{24} = \frac{39}{24}$$

$$2 \mid 6, 12, 24$$

$$3 \mid 3, 6, 12$$

$$2 \mid 1, 2, 4$$

$$1, 1, 2$$

$$L.C.M = 24$$

$$d \quad \frac{2}{7} + \frac{3}{5} + \frac{1}{2}$$

$$\frac{2 \times 10 + 3 \times 14 + 2 \times 35}{70}$$

$$= \frac{20 + 42 + 70}{70}$$

$$= \frac{135}{70}$$

$$e \quad \frac{5}{16} + \frac{7}{10} + \frac{2}{5}$$

$$\frac{5 \times 5 + 7 \times 8 + 2 \times 16}{80}$$

$$= \frac{25 + 56 + 32}{80}$$

$$= \frac{113}{80}$$

2	16, 10, 5
5	8, 5, 5
2	8, 1, 1
2	4, 1, 1
2	2, 1, 1
	1, 1, 1

L.C.M = 80

$$1) \quad \frac{16}{15} + \frac{9}{10} + \frac{3}{8}$$

$$\frac{16 \times 8 + 9 \times 12 + 3 \times 15}{120}$$

$$= \frac{128 + 108 + 45}{120}$$

$$= \frac{281}{120}$$

5	15, 10, 8
2	3, 2, 8
3	3, 1, 4
2	1, 1, 4
2	1, 1, 2
	1, 1, 1

L.C.M = 120

$$9) 1\frac{1}{4} + 3\frac{3}{8}$$

~~LCM~~

$$1\frac{1}{4} = \frac{5}{4}$$

$$3\frac{3}{8} = \frac{27}{8}$$

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

$$= \frac{5}{4} + \frac{27}{8}$$

$$L.C.M = 8$$

$$\frac{5 \times 2 + 27 \times 1}{8}$$

$$\textcircled{10} = \frac{10 + 27}{8}$$

~~LCM~~

$$= \frac{37}{8}$$

$$A) 3\frac{2}{3} + 7\frac{5}{6} + 5\frac{1}{2}$$

$$3\frac{2}{3} = \frac{10}{3} \quad , \quad 7\frac{5}{6} = \frac{47}{6} \quad , \quad 5\frac{1}{2} = \frac{11}{2}$$

$$\frac{10}{3} + \frac{47}{6} + \frac{11}{2}$$

$$\begin{array}{l} 2 \mid 3, 6, 2 \\ 3 \mid 3, 3, 1 \end{array}$$

$$\frac{10 \times 2 + 47 \times 1 + 11 \times 3}{6}$$

$$1, 2, 1$$

$$L, C, M = 6$$

$$= \frac{30 + 47 + 33}{6}$$

$$= \frac{110}{6}$$

$$i) 6\frac{5}{14} + 20 + 7\frac{3}{7} + 8\frac{7}{12}$$

$$\text{Ans } \frac{89}{14} + \frac{20}{1} + \frac{52}{7} + \frac{103}{12}$$

2	14, 7, 12
7	7, 7, 6
2	1, 1, 6
3	1, 1, 3
	1 1 1

$$\frac{6 \times 89 + 84 \times 20 + 12 \times 52 + 7 \times 103}{84}$$

$$= \frac{534 + 1680 + 624 + 721}{84}$$

$$\frac{3559}{84}$$