

HW  
2/9/21

# Ex 9 (B)

1) Add

$$a. \begin{array}{r} 5 + 7 \\ 6 \quad 12 \end{array}$$

3	6, 12
2	2, 4
2	1, 2
<del>L.C.M. = 6</del>	
1	1

$$\begin{array}{r} 5 \times 2 + 7 \times 1 = 10 + 7 = 17 \\ 12 \qquad \qquad 12 \qquad \qquad 12 \end{array}$$

$$b. \begin{array}{r} 4 + 3 + 1 \\ 5 \quad 10 \quad 2 \end{array}$$

L.C.M. = 10	
2	5, 10, 2
5	5, 5, 1
	1, 1, 1
L.C.M. = 10	

$$\begin{array}{r} 4 \times 2 + 3 \times 1 + 1 \times 5 = 8 + 3 + 5 = 16 \\ 10 \qquad \qquad \qquad 10 \qquad \qquad 10 \end{array}$$

$$c. \begin{array}{r} 5 + 7 + 5 + 7 + 5 \\ 6 \quad 12 \quad 6 \quad 12 \quad 24 \end{array}$$

3	6, 12, 24
2	2, 4, 8
2	1, 2, 4
2	1, 1, 2
	1, 1, 1
L.C.M. = 24	

$$\begin{array}{r} 5 \times 4 + 7 \times 2 + 5 \times 1 \\ 24 \end{array}$$

$$\begin{array}{r} = 20 + 14 + 5 = 39 \\ 24 \qquad \qquad 24 \end{array}$$

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

$$\frac{2 \times 10 + 3 \times 14 + 1 \times 35}{70} = \frac{20 + 42 + 35}{70} = \frac{97}{70}$$

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

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

$$= \frac{25 + 56 + 32}{80} = \frac{113}{80}$$

$$\begin{array}{r|l} 2 & 16, 10, 5 \\ \hline 5 & 8, 5, 5 \\ \hline 2 & 8, 1, 1 \\ \hline 2 & 4, 1, 1 \\ \hline 2 & 2, 1, 1 \end{array}$$

$$1, 1, 1$$

$$L.C.M. = 80$$

2) Subtract the following fractions:

$$a) \frac{8}{15} - \frac{4}{9}$$

$$\frac{8 \times 3 - 4 \times 5}{45} = \frac{24 - 20}{45} = \frac{4}{45}$$

$$\begin{array}{r|l} 3 & 15, 9 \\ \hline 3 & 5, 3 \\ \hline 5 & 5, 1 \\ \hline & 1, 1 \end{array}$$

$$L.C.M. = 45$$

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1) Add

$$f) 16 + 9 + 3$$
$$25 \quad 10 \quad 8$$

$$= 16 \times 8 + 9 \times 20 + 3 \times 25$$
$$200$$

$$= 128 + 180 + 75$$
$$200$$

$$2 \mid 25, 10, 8$$
$$5 \mid 25, 5, 4$$
$$5 \mid 5, 4, 4$$
$$2 \mid 1, 1, 4$$
$$2 \mid 1, 1, 2$$
$$1, 1, 1$$

$$L.C.M. = 200$$
$$= 383$$
$$200$$

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

$$= 1 \frac{1}{4} + 3 \frac{3}{8} = \frac{5}{4} + \frac{27}{8}$$

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

$$= \frac{10 + 27}{8} = \frac{37}{8}$$

$$2 \mid 4, 8$$
$$2 \mid 2, 4$$
$$2 \mid 1, 2$$
$$1, 1$$
$$L.C.M. = 8$$

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

$$= \frac{31}{3} + \frac{75}{6} + \frac{51}{2} = \frac{10}{3} + \frac{47}{6} + \frac{11}{2}$$

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

$$\begin{array}{r|l} 3 & 3, 6, 2 \\ \hline 2 & 1, 2, 2 \\ & 1, 1, 1 \\ \hline & \text{L.C.M.} = 6 \end{array}$$

$$= \frac{20 + 47 + 33}{6} = \frac{100}{6}$$

$$i) \frac{65}{14} + 20 + \frac{73}{7} + \frac{87}{12}$$

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

$$\begin{array}{r|l} 2 & 14, 7, 12 \\ \hline 2 & 7, 7, 6 \\ \hline 3 & 7, 7, 3 \\ \hline 7 & 7, 7, 1 \\ \hline & 1, 1, 1 \\ \hline & \text{L.C.M.} = 84 \end{array}$$

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

$$= \frac{534 + 1680 + 624 + 721}{84} = \frac{3559}{84}$$