

Hw/
5.9.21

MATH

Ex-9(B)

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1) Add

$$e) \frac{5}{16} + \frac{7}{10} + \frac{2}{5} = \frac{113}{80}$$

L.C.M. = 80

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

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

$$f) \frac{16}{25} + \frac{9}{10} + \frac{3}{8}$$

L.C.M. = ~~225~~ 200

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

$$\frac{128 + 180 + 75}{200} = \frac{383}{200} = 1 \frac{183}{200}$$

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

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

$$L.C.M. = 8$$

$$\frac{5 \times 2 + 27 \times 1}{8} = \frac{10 + 27}{8} = \frac{37}{8}$$

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

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

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

$$L.C.M. = 6$$

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

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

$$= 16\frac{4}{6}$$

$$\text{Lowest term} = 16\frac{2}{3}$$

2) Subtract the following fractions.

f) $\frac{16}{27} - \frac{7}{18}$

L.C.M. = 54

$$\frac{16 \times 2 - 7 \times 3}{54} = \frac{32 - 21}{54} = \frac{11}{54}$$

g) $13 \frac{7}{9} - 8 \frac{5}{12}$

$$\frac{124}{9} - \frac{101}{12}$$

L.C.M. = 36

$$\frac{124 \times 4 - 101 \times 3}{36} = \frac{496 - 303}{36} = \frac{193}{36}$$

Ans :- $5 \frac{13}{36}$

h) $6\frac{3}{17} - 4$

$$\frac{105}{17} - \frac{4}{1}$$

L.C.M. = ~~4~~ 17

$$\frac{105 \times 1 - 4 \times 17}{17} = \frac{105 - 68}{17}$$

$$= \frac{37}{17} = 2\frac{3}{17}$$

i) $30\frac{3}{4} - 25$

$$\frac{123}{4} - \frac{25}{1}$$

L.C.M. = 4

$$\frac{123 \times 1 - 25 \times 4}{4} = \frac{123 - 100}{4}$$

$$= \frac{23}{4} = 5\frac{3}{4}$$

j) $20 \frac{7}{12} - 15$

$$\frac{247}{12} - \frac{15}{1}$$

L.C.M = 12

$$\frac{247 \times 1 - 15 \times 12}{12} = \frac{247 - 180}{12} = \frac{67}{12}$$

$$= 5 \frac{7}{12}$$

k) $12 \frac{7}{8} - 11 \frac{1}{2}$

$$\frac{103}{8} - \frac{23}{2}$$

L.C.M = 8

$$\frac{103 \times 1 - 23 \times 4}{8} = \frac{103 - 92}{8} = \frac{11}{8}$$

$$= 1 \frac{3}{8}$$

$$2) 100\frac{1}{4} - 99$$

$$\frac{401}{4} - \frac{99}{1}$$

$$L.C.M. = 4$$

$$\frac{401 \times 1 - 99 \times 4}{4} = \frac{401 - 396}{4} = \frac{5}{4}$$

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