

3.9.2022

Ex 9.B

2 Subtract

$$\sqrt[1]{\frac{16}{27} - \frac{7}{18}}$$

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

3	27, 18
3	9, 6
3	3, 2
2	2, 2
	1, 1

$$g) 13\frac{7}{9} - 8\frac{5}{12} = \frac{124}{9} - \frac{71}{12}$$

L.C.M = 54

$$\frac{124 \times 4 - 71 \times 3}{36} = \frac{496 - 213}{36}$$

$$= \frac{283}{36} = 7\frac{34}{36}$$

3	9, 12
3	3, 4
0	1, 4
	1, 2

$$h) 6\frac{3}{17} - 4 = \frac{105}{17} - \frac{4}{1}$$

L.C.M = 36

$$\frac{105 \times 1 - 4 \times 17}{17} = \frac{105 - 68}{17} = \frac{37}{17} = 2\frac{3}{17}$$

$$(i) \quad 30\frac{3}{4} - 25 = \frac{223}{4} - \frac{25}{1}$$

Ans ~~$30 + \left[\frac{3}{4} - \frac{25}{1} \right]$~~

~~$$30 + \frac{3 \times 1 - 25 \times 4}{4} = 30 + \frac{3 - 100}{4} = 30 + \frac{-97}{4}$$~~

~~$$= 24\frac{1}{4} = 54\frac{2}{4}$$~~

Ans
$$\frac{123 \times 1 - 25 \times 4}{4} = \frac{123 - 100}{4} = \frac{23}{4}$$

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

$$j) \quad 20\frac{7}{12} - 15 = \frac{247}{12} - \frac{15}{1}$$

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

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

$$k) 12 \frac{7}{8} - 11 \frac{1}{2} = \frac{103}{8} - \frac{23}{2}$$

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

$$\frac{11}{8} = 1 \frac{3}{8}$$

$$2 \overline{) 8, 2}$$

$$2 \overline{) 4, 1}$$

$$2 \overline{) 2, 1}$$

$$\text{L.C.M} = 8$$

$$l) 100 \frac{1}{4} - 99 = \frac{401}{4} - \frac{99}{1}$$

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

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