

Exercise - 9(B)

Q1 > Add

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

Ans > LCM = 200

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

$$= \frac{128 + 180 + 75}{200}$$

$$\frac{383}{200}$$

$$= 1 \frac{183}{200}$$

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

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

= LCM = 8

Rough

2	25, 10, 8
5	25, 5, 4
5	5, 1, 4
2	1, 1, 4
2	1, 1, 2
	1, 1, 1

Rough

2	4, 8
2	2, 4
2	1, 2
	1, 1

$$= \frac{(2 \times 5) + (4 \times 27)}{8}$$

$$= \frac{10 + 108}{8}$$

$$= \frac{118}{8}$$

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

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

Ans) Converting to improper fractions, we get  $= \frac{10}{3} + \frac{47}{6} + \frac{11}{2}$

So, LCM =  $\frac{(10 \times 2) + (47 \times 1) + (3 \times 11)}{6}$

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

$$= \frac{100}{6} = 16 \frac{4}{6}$$

$$\rightarrow \frac{65}{14} + 20 + 7 \frac{3}{7} + 8 \frac{7}{12}$$

Ans) Converting to improper fractions, we get  $= \frac{89}{14} + \frac{20}{1} + \frac{52}{7} + \frac{103}{12}$

So, LCM =  $\frac{(6 \times 84) + (84 \times 20) + (12 \times 52) + (7 \times 103)}{84}$

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

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

$$= 42 \frac{31}{84}$$

Rough	$\begin{array}{r} 1680 \\ + 721 \\ \hline 2401 \\ + 624 \\ \hline 3025 \\ + 534 \\ \hline 3559 \end{array}$	$\begin{array}{r} 84 \\ \times 42 \\ \hline 336 \\ 3559 \\ \hline 3559 \\ - 336 \\ \hline 168 \\ \hline 31 \end{array}$
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Q2 > Subtract the following fractions

f >  $\frac{10}{32} - \frac{7}{48}$

Ans > LCM =  $\frac{(2 \times 16) - (3 \times 7)}{54}$

=  $\frac{32 - 21}{54}$

=  $\frac{11}{54}$

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

Ans > Improper form of fractions

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

So, LCM =  $\frac{(4 \times 124) - (3 \times 101)}{36}$

Rough

=  $\frac{496 - 303}{36}$

=  $\frac{193}{36}$

=  $5\frac{13}{36}$

25 | 193  
- 180  
-----  
13

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

Ans > Improper form of fractions

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

= LCM =  $\frac{(1 \times 105) - (17 \times 4)}{17}$

=  $\frac{105 - 68}{17} = \frac{37}{17}$

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

1 >  $30\frac{3}{4} - 25$

Ans > Improper form of fractions

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

$$= \text{LCM} = \frac{(1 \times 123) - (4 \times 25)}{4}$$

$$= \frac{123 - 100}{4}$$

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

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

Ans > Improper form of fractions

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

$$= \text{So, LCM} = \frac{(1 \times 247) - (12 \times 15)}{12}$$

~~Ans~~ =  $\frac{247 - 180}{12}$

$$= \frac{67}{12} = 5\frac{7}{12}$$

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

Ans > Improper form of fractions

$$= \frac{103}{8} - \frac{33}{2}$$

$$= \text{LCM} = \frac{(1 \times 103) - (23 \times 4)}{8}$$

$$= \frac{103 - 92}{8}$$

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

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

L >  $\frac{1001}{4} - 99$

Ans → Improper form of fractions =

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

= LCM =  $\frac{(1 \times 401) - (99 \times 4)}{4}$

=  $\frac{401 - 396}{4}$

~~$\frac{7}{4} = 4 \frac{1}{4}$~~

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