

CW  
3/9/22

Friday

$$e) \frac{7}{9} - \frac{4}{15}$$

The L.C.M. of 9 and 15 =  $9 \times 5 \times 3 =$

135

$$\frac{7}{9} - \frac{4}{15} = \frac{105 \div 36}{135} - \frac{96}{135} = \frac{141 - 96}{135} = \frac{45}{135}$$

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

The L.C.M. of 27 and 18 =  $2 \times 3$

$$\times 9 = 54$$

$$\frac{16}{27} - \frac{7}{18} = \frac{188 \div 288}{54} - \frac{216}{54} = \frac{476 - 216}{54} = \frac{260}{54}$$

$$8 \frac{44}{54}$$



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

$$13\frac{7}{9} - 8\frac{5}{12} = \frac{127}{9} - \frac{96}{12} =$$

The L.C.M. of 9 and 12 =  $3 \times 3 \times 4 =$

36

$$\frac{127}{9} \quad \frac{96}{12} = \frac{1404 + 864}{36} = \frac{2268}{36}$$

$$= 62\frac{36}{36}$$

$$h) 6\frac{3}{27} - 4$$

$$6\frac{3}{27} - 4 = \frac{205}{27} - \frac{4}{1}$$

~~The L.C.M. of 27 and 1~~

The L.C.M. of  $\frac{205}{27}$  and  $\frac{4}{1} = 27 \times 4$   
 $= 108$

$$\frac{405}{17} - \frac{4}{1} = \frac{405 + 68}{17} = \frac{473}{17} =$$

$$20\frac{3}{17}$$

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

$$30\frac{3}{4} - 25 = \frac{123}{4} - \frac{25}{1}$$

The L.C.M. of 4 and 1 is 4

$$\frac{123}{4} - \frac{25}{1} = \frac{123 + 100}{4} = \frac{223}{4}$$

$$= 55\frac{3}{4}$$

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

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



The L.C.M. of 12 and 1 is 12

$$\frac{207}{12} - \frac{15}{1} = \frac{207 - 180}{12}$$

$$\frac{427}{12} = 35 \frac{7}{12}$$

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

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

L.C.M. of 8 and 2 is  $2 \times 2 \times 2 = 8$

$$\frac{206}{8} - \frac{184}{8} = \frac{22}{8} = 3 \frac{4}{8}$$

h)  $100 \frac{1}{4} = 99$

$$100 \frac{1}{4} - 99 = \frac{100}{4} - \frac{99}{1}$$

The L.C.M. of 4 and 1 =  $2 \times 2$   
= 4 =

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

$$= 2 \frac{1}{4}$$

3.  
d)  $\frac{1}{2}, \frac{3}{4}, \frac{5}{8}, \frac{1}{16}$  The L.C.M. of 2, 4, 8, and 16 =  $2 \times 2 \times 2 \times 2 = 16$

$$\frac{1}{2} + \frac{3}{4} + \frac{5}{8} - \frac{1}{16} = \frac{4+6+8-1}{8} = \frac{17}{8}$$

e)  $8\frac{3}{4} + 7\frac{1}{2} - 3\frac{1}{4} - 2\frac{1}{2}$

$$8\frac{3}{4} + 7\frac{1}{2} - 3\frac{1}{4} - 2\frac{1}{2} = \frac{35}{4} - \frac{5}{4} = \frac{30}{4} = 7\frac{3}{2}$$



The L.C.M. of 4, 2, 42 is =  $2 \times 2 \times 2 \times 2 =$

B.

$$\frac{35}{4} \frac{15}{2} \frac{13}{4} \frac{5}{2} - \frac{70}{8} \frac{60}{8} - \frac{26}{8} - \frac{20}{8} - \frac{74}{8}$$

$$= 22 \frac{8}{8}$$

$$F) 10 \frac{5}{6} - 7 \frac{2}{3} + 8 \frac{1}{3} - 5 \frac{1}{2}$$

$$10 \frac{5}{6} - 7 \frac{2}{3} + 8 \frac{1}{3} - 5 \frac{1}{2} =$$

$$\frac{65}{6} - \frac{23}{3} + \frac{25}{3} - \frac{11}{2}$$

The L.C.M. of 6, 3, 3, and 2 is

$$3 \times 2 = 6$$

$$\frac{65}{6} - \frac{23}{3} + \frac{25}{3} - \frac{11}{2} = \frac{95}{6} - \frac{138}{6} +$$

$$\frac{50}{6} - \frac{33}{6} = \frac{74}{6} = 12 \frac{2}{6}$$

$$g) 5\frac{5}{12} - 6 + 8 - 5\frac{3}{5}$$

$$5\frac{5}{12} - 6 + 8 - 5\frac{3}{5} = \frac{65}{12} - 6 + 8 - \frac{28}{5}$$

$$\frac{28}{5}$$

L.C.M. of 12, 1, 1, 5 is

$$2 \times 5 \times 6 = 60$$

$$\frac{65}{12} - \frac{6}{1} + \frac{8}{1} - \frac{28}{5} = \frac{65 - 72 + 28 - 28}{60}$$

$$= \frac{31}{60}$$

$$h) 10\frac{1}{4} + 6\frac{3}{8} - 15 + 1\frac{1}{2}$$

$$10\frac{2}{4} + 6\frac{3}{8} - 15 + 1\frac{1}{2} = \frac{41}{4} + \frac{51}{8} - \frac{75}{1} + \frac{3}{2}$$



The L.C.M. of 2, 4, 8 and 1 is  $2 \times 2 \times 2$   
 $= 8$

$$\frac{11}{4} + \frac{51}{8} - \frac{25}{1} + \frac{3}{2} = \frac{328 + 204 - 304 + 3}{8}$$

$$= \frac{505}{8} = 84 \frac{1}{8}$$

1)  $25 - 20 \frac{1}{2} + 15 \frac{3}{5} - 5$

$$25 - 20 \frac{1}{2} + 15 \frac{3}{5} - 5 = \frac{25}{1} - \frac{41}{2} + \frac{18}{1} - 5$$

The L.C.M. of 1, 2, 5, 1 is  $2 \times 5$

$$= 10$$

2)  $\frac{9}{24} - 1 \frac{2}{7} + 4 \frac{3}{7} - 1 \frac{2}{21}$



$$\frac{9}{24} - 2\frac{3}{7} + 9\frac{3}{7} - 1\frac{2}{21} =$$

$$\frac{9}{24} - \frac{9}{7} + \frac{31}{7} - \frac{12}{21} =$$

The L.C.M. of 24, 7, 7, 21 =

$$2 \times 7 \times 3 = 42$$

$$\frac{9}{24} - \frac{9}{7} + \frac{31}{7} - \frac{12}{21} = \frac{63 - 120 + 189 - 84}{42}$$

$$= \frac{63 - 120 + 189 - 84}{42} = \frac{27}{42}$$