CW
3.9.21

Exercise - 9(B)

1) a) $\frac{5}{6} + \frac{7}{12} = \frac{10+7}{12} = \frac{17}{12}$

b) $\frac{4}{5} + \frac{3}{10} + \frac{1}{2} = \frac{8+3+5}{10} = \frac{16}{10}$

c) $\frac{5}{6} + \frac{7}{12} + \frac{5}{24} = \frac{20+14+5}{24} = \frac{39}{24}$

d) $\frac{2}{7} + \frac{3}{5} + \frac{1}{2} = \frac{20+42+35}{70} = \frac{97}{70}$

e) $\frac{5}{16} + \frac{7}{10} + \frac{2}{5} = \frac{25+56+32}{80} = \frac{113}{80}$

f) $\frac{16}{25} + \frac{9}{10} + \frac{3}{8} = \frac{128+180+75}{200} = \frac{383}{200}$

g) $1\frac{1}{4} + 3\frac{3}{8} = \frac{5}{4} + \frac{27}{8} = \frac{10+27}{8} = \frac{37}{8}$

h) $9\frac{1}{3} + 7\frac{5}{6} + 5\frac{1}{2} = \frac{10}{3} + \frac{47}{6} + \frac{11}{2} = \frac{20+47+33}{6}$

$= \frac{100}{6}$

i) $6\frac{5}{14} + \frac{20}{1} + 7\frac{3}{7} + 8\frac{7}{12} = \frac{3559}{84}$

2) a) $\frac{8}{15} - \frac{4}{9} = \frac{24-20}{45} = \frac{4}{45}$

b) $\frac{11}{13} - \frac{5}{7} = \frac{77-65}{91} = \frac{12}{91}$

c) $\frac{13}{17} - \frac{7}{10} = \frac{130-119}{170} = \frac{11}{170}$

d) $\frac{15}{19} - \frac{9}{13} = \frac{195-171}{247} = \frac{24}{247}$

e) $\frac{7}{9} - \frac{4}{15} = \frac{35-12}{45} = \frac{23}{45}$

f) $\frac{16}{27} - \frac{7}{18} = \frac{32-21}{54} = \frac{11}{54}$

g) $13\frac{7}{9} - 8\frac{5}{12} = \frac{124}{9} - \frac{101}{12} = \frac{23}{36}$

h) $6\frac{3}{17} - \frac{4}{1} = \frac{37}{17}$

i) $30\frac{3}{4} - \frac{25}{1} = \frac{123}{4} - \frac{25}{1} = \frac{123 - 100}{4} = \frac{23}{4}$

j) $20\frac{7}{12} - \frac{15}{1} = \frac{247}{12} - \frac{15}{1} = \frac{247 - 180}{12} = \frac{67}{12}$

k) $12\frac{7}{8} - 11\frac{1}{2} = \frac{103}{8} - \frac{23}{2} = \frac{103 - 92}{8} = \frac{11}{8}$

l) $100\frac{1}{4} - \frac{99}{1} = \frac{401}{4} - \frac{399}{1} = \frac{401 - 396}{4} = \frac{5}{4}$