

2. SUBTRACT

$$a) \quad \frac{8}{15} - \frac{4}{9}$$

$$\text{Lcm} = 45$$

$$\begin{array}{r|l} 3 & 9, 15 \\ 3 & 3, 5 \\ & 1, 5 \end{array}$$

$$\frac{8 \times 3 - 4 \times 5}{45} = \frac{24 - 20}{45} = \frac{4}{45}$$

$$b) \quad \frac{11}{13} - \frac{5}{7}$$

$$\begin{array}{r} 77 - 65 = 12 \\ \hline 91 = 91 \end{array}$$

$$\frac{11 \times 7 - 5 \times 13}{91}$$

$$\text{Lcm} = 13 \times 7 = 91$$

$$c) \quad \frac{13}{17} - \frac{7}{10}$$

$$\text{Lcm} = 17 \times 10 = 170$$

$$\frac{13 \times 10 - 7 \times 17}{170}$$

$$\frac{130 - 119}{170} = \frac{11}{170}$$

$$d) \quad \frac{15}{19} - \frac{9}{13}$$

$$\text{Lcm} = 19 \times 13$$

$$\frac{15 \times 13 - 9 \times 19}{247}$$

$$\frac{24}{247}$$

$$\frac{195 - 171}{247} = \frac{24}{247}$$

2. Subtract

e)

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

$$\frac{7 \times 5}{9 \times 5} = \frac{35}{45}$$

$$\frac{4 \times 3}{15 \times 3} = \frac{12}{45}$$

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

$$\frac{16 \times 2}{27 \times 2} = \frac{32}{54}$$

$$\frac{7 \times 3}{18 \times 3} = \frac{21}{54}$$

$$3 \overline{) 9, 15}$$

$$3 \overline{) 3, 5}$$

$$5 \overline{) 1, 5}$$

$$1 \ 1$$

$$3 \times 3 \times 5 = 45$$

$$\frac{35}{45} - \frac{12}{45} = \frac{23}{45}$$

$$3 \overline{) 27, 18}$$

$$3 \overline{) 9, 6}$$

$$3 \overline{) 3, 2}$$

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

$$1 \ 1$$

$$3 \times 3 \times 3 \times 2 = 54$$

$$\frac{32}{54} - \frac{21}{54} = \frac{11}{54}$$

g)

$$\frac{137}{9} - \frac{85}{12}$$

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

$$\frac{124 \times 4}{9 \times 4} = \frac{496}{36}$$

$$\frac{101 \times 3}{12 \times 3} = \frac{303}{36}$$

$$3 \overline{) 9, 12}$$

$$3 \overline{) 3, 4}$$

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

$$1 \ 1$$

$$3 \times 3 \times 4 = 36$$

$$\frac{496 - 303}{36} = \frac{193}{36}$$

Hw
3.08.22

$$A) \quad \frac{6\frac{3}{17} - 4}{1}$$
$$\frac{105}{17} - \frac{4}{1}$$

$$\frac{17}{17} \mid \frac{17, 1}{1, 1} \quad \text{Lcm} = 17$$

$$\frac{105 \times 1}{17 \times 1} = \frac{105}{17}$$

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

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

$$i) \quad \frac{30\frac{3}{4} - 25}{1}$$
$$\frac{123}{4} - \frac{25}{1}$$

$$\frac{2}{2} \mid \frac{4, 1}{2, 1}$$

$$2 \times 2 = 4$$

$$\frac{123 \times 1}{4 \times 1} = \frac{123}{4}$$

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

$$\frac{123 - 100}{4} = \frac{23}{4}$$

3.8.21

j)

$$\begin{array}{r} 207 \\ 12 \overline{) 207} \\ \underline{12} \\ 87 \\ \underline{84} \\ 3 \end{array}$$

$$\begin{array}{r} 15 \\ 1 \end{array}$$

$$\begin{array}{r|l} 12 & 12 \ 1 \ 2 \\ \hline & 3 \ 2 \\ & \underline{3} \ 3 \ 1 \\ & 11 \end{array}$$

$2 \times 2 \times 3 = 12$

$15 \times 12 = 180$

$1 \times 12 = 12$

$$\begin{array}{r} 247 \\ 12 \overline{) 247} \\ \underline{12} \\ 127 \\ \underline{120} \\ 7 \end{array}$$

$$\begin{array}{r} 247 \times 1 \\ 12 \times 1 \end{array} = \frac{247}{12}$$

k)

$$\begin{array}{r} 127 \\ 8 \overline{) 127} \\ \underline{8} \\ 47 \\ \underline{40} \\ 7 \end{array}$$

$$\begin{array}{r} 11 \\ 2 \end{array}$$

$$\begin{array}{r|l} 2 & 2 \ 8 \\ \hline & 2 \ 1 \ 4 \\ & \underline{2} \ 1 \ 2 \\ & 11 \end{array}$$

$2 \times 2 \times 2 = 8$

$$\begin{array}{r} 103 \times 1 \\ 8 \times 1 \end{array} = \frac{103}{8}$$

$$\begin{array}{r} 103 \\ 8 \overline{) 103} \\ \underline{92} \\ 11 \end{array}$$

$$\begin{array}{r} 23 \times 4 \\ 2 \times 4 \end{array} = \frac{92}{8}$$

HW
3.09.21

$$\begin{array}{r} 100\frac{1}{4} - \frac{99}{1} \\ \hline 401 - 99 \\ \hline 4 \quad 1 \end{array}$$

$$\begin{array}{r} 4 \overline{) 401} \\ \underline{40} \\ 1 \end{array}$$

LCM = 4

$$\frac{401 \times 1}{4 \times 1} = \frac{401}{4}$$

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

$$\frac{99 \times 4}{1 \times 4} = \frac{396}{4}$$

ADD

$$e) \begin{array}{r} 5 + 7 + 2 \\ \hline 16 \quad 10 \quad 5 \end{array}$$

$$\begin{array}{r} 5 \times 5 = 25 \\ \hline 16 \times 5 = 80 \end{array}$$

$$\begin{array}{r} 7 \times 8 = 56 \\ \hline 10 \times 8 = 80 \end{array}$$

$$\begin{array}{r} 2 \times 16 = 32 \\ \hline 5 \times 16 = 80 \end{array}$$

$$\begin{array}{r} 2 \overline{) 16005} \\ \underline{2} \\ 2 \\ \underline{2} \\ 2 \\ \underline{2} \\ 5 \\ \underline{5} \\ 1 \end{array}$$

$$2 \times 2 \times 2 \times 2 \times 5 = 80$$

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

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

$$16 \times 8 = 128$$

$$25 \times 8 = 200$$

$$9 \times 20 = 180$$

$$10 \times 20 = 200$$

$$3 \times 25 = 75$$

$$8 \times 25 = 200$$

$$5 \mid 25, 10, 8$$

$$5 \mid 5, 2, 8$$

$$2 \mid 1, 2, 8$$

$$2 \mid 1, 1, 4$$

$$2 \mid 1, 1, 2$$

$$1, 1, 1$$

$$5 \times 5 \times 2 \times 2 \times 2 = 200$$

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

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

$$5 \times 2 = 10$$

$$4 \times 2 = 8$$

$$\frac{27 \times 1}{8 \times 1} = \frac{27}{8}$$

$$2 \mid 4, 8$$

$$2 \mid 2, 4$$

$$2 \mid 1, 2$$

$$1, 1$$

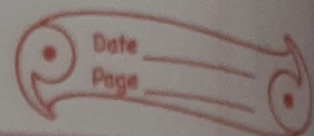
$$2 \times 2 \times 2 = 8$$

$$\frac{10}{8} + \frac{27}{8} = \frac{37}{8}$$

03.8.21

Hw

ADD



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

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

$$\begin{array}{l|l} 3 & 3, 6, 2 \\ 2 & 1, 2, 2 \\ & 1, 1, 1 \end{array}$$

$$3 \times 2 = 6$$

$$\frac{10 \times 2}{3 \times 2} = \frac{20}{6}$$

$$\frac{47 \times 1}{6 \times 1} = \frac{47}{6}$$

$$\frac{20}{6} + \frac{47}{6} = \frac{133}{6}$$

$$\frac{11 \times 3}{2 \times 3} = \frac{33}{6}$$

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

$$\frac{89}{14} + \frac{20}{1} + \frac{52}{7} + \frac{103}{12}$$

$$89 \times 6 = 534$$

$$14 \times 6 = 84$$

$$20 \times 84 = 1680$$

$$1 \times 84 = 84$$

$$\begin{array}{l|l} \cancel{89} & \\ 2 & 14, 1, 7, 12 \\ 2 & 7, 1, 7, 6 \\ 3 & 7, 1, 7, 3 \\ 7 & 7, 1, 7, 1 \\ & 1, 1, 1 \end{array}$$

$$2 \times 2 \times 12 \times 7 = 84$$

0308.21
HW

$$\frac{52 \times 12}{7 \times 12} = \frac{624}{84}$$

$$\frac{103 \times 7}{12 \times 7} = \frac{721}{84}$$

$$\frac{534 + 1680 + 624 + 721}{84} = \frac{3559}{84}$$