

6-5 Add/Subtract Mixed Numbers

Ex 1) $2\frac{3}{4} + 1\frac{1}{2}$

$$\begin{array}{r} 2\frac{3}{4} \\ + 1\frac{1}{2} \\ \hline \end{array}$$

$$\begin{array}{r} 2 \cdot 2 \cdot 4 \\ 1 \cdot 2 \end{array}$$

LCM = $2 \cdot 2 = 4$

$$3\frac{5}{4} = 3 + 1\frac{1}{4} = \boxed{4\frac{1}{4}}$$

$$\begin{array}{r} 4 \overline{) 15} \\ \underline{12} \\ 3 \\ \underline{3} \\ 0 \end{array}$$

1st STACK

2nd find LCD

3rd write equivalent frac

4th + / - frac.

then whole #s

5th simplify/rename

$$2) \quad 12\frac{3}{8} - 5\frac{1}{8}$$

$$12\frac{3}{8}$$

$$- 5\frac{1}{8}$$

$$\hline \begin{array}{r} 2 \quad 8 \\ 1 \quad 4 \end{array}$$

$$\boxed{7\frac{1}{4}}$$

Don't forget
whole #

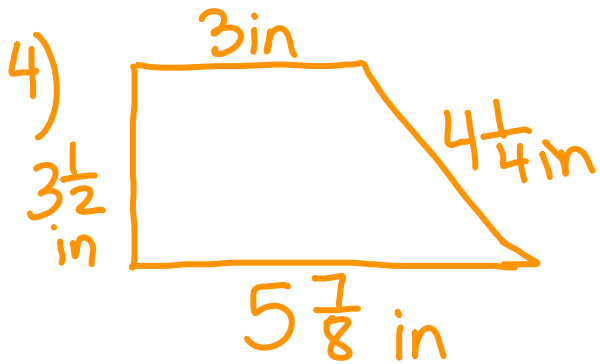
$$3) \quad 12\frac{1}{4} + 3\frac{5}{6}$$

$$12\frac{1}{4} = \frac{3}{12}$$

$$+ 3\frac{5}{6} = \frac{10}{12}$$

$$\begin{array}{r} 2 \overline{) 4 \ 6} \\ \underline{2 \ 3} \\ \text{LCD} = 12 \end{array}$$

$$\hline 15\frac{13}{12} = 15 + \frac{1}{12} = \boxed{16\frac{1}{12}}$$



Find the perimeter.
(distance around)

$$\begin{array}{r}
 3 \\
 4\frac{1}{4} = \frac{2}{8} \\
 5\frac{7}{8} = \frac{7}{8} \\
 + 3\frac{1}{2} = \frac{4}{8} \\
 \hline
 15\frac{13}{8} = 15 + 1\frac{5}{8} = \boxed{16\frac{5}{8} \text{ in}}
 \end{array}$$

5) Evaluate $x-y$ if $x = 5\frac{9}{10}$ and $y = 2\frac{1}{2}$.

(substitute +
work out)

$$\begin{array}{r} 5\frac{9}{10} = \frac{9}{10} \\ - 2\frac{1}{2} = \frac{5}{10} \\ \hline 3\frac{4}{10} = \boxed{3\frac{2}{5}} \end{array}$$