

6.4 Adding/Subtracting mixed Numbers

Front End

$$\begin{array}{r} 7 \overline{) 12} \\ 6 \cdot 35 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \overline{) \frac{1}{4}} \\ 6 \overline{) \frac{1}{4}} \end{array}$$

$$13 \frac{1}{2}$$

1. Add Whole numbers  
 $7 + 6 = 13$
2. Find LCD if needed and add  
 $\frac{1}{4} + \frac{1}{4} = \frac{2}{4}$
3. Simplify Fraction  
 $\frac{2}{4}$
4. Combine and simplify mixed number

$$5 \frac{4}{8} + 3 \frac{3}{4}$$

$$\begin{array}{r} 8 \frac{31}{20} \\ \swarrow \\ 9 \frac{11}{20} \end{array}$$

$$\begin{array}{l} 5 + 3 = 8 \\ \frac{16}{20} + \frac{15}{20} = \frac{31}{20} \\ 1 \frac{11}{20} \\ 8 + 1 \frac{11}{20} \\ 9 \frac{11}{20} \end{array}$$

Subtraction

$$7 \frac{4}{5} - 2 \frac{3}{5}$$

$$5 \frac{1}{5}$$

- Subtract Whole Numbers  
 $7 - 2 = 5$   
Find LCD if needed and subtract  
 $\frac{4}{5} - \frac{3}{5} = \frac{1}{5}$   
Simplify Fraction  
combine

$$9 \frac{7}{8} - 6 \frac{5}{6}$$

$$3 \frac{1}{24}$$

$$\begin{array}{l} 9 - 6 = 3 \\ \text{LCD } 24 \\ \frac{21}{24} - \frac{20}{24} = \frac{1}{24} \end{array}$$

$$12 \frac{3}{8} - 6 \frac{1}{4} + 5 \frac{2}{3} = 11 \frac{19}{24}$$

$$\begin{array}{l} 12 - 6 \\ \frac{3}{8} - \frac{2}{8} = \frac{1}{8} \\ 6 \frac{1}{8} + 5 \frac{2}{3} \\ 6 + 5 = 11 \\ \frac{3}{24} + \frac{16}{24} = \frac{19}{24} \end{array}$$



$$7\frac{1}{6} + 5\frac{3}{4} + 2\frac{0}{12}$$

$$7 + 5 = 12$$

$$\frac{2}{12} + \frac{9}{12} = \frac{11}{12}$$

$$12\frac{11}{12} + 2 = 14\frac{11}{12} \text{ in}$$

$$1\frac{1}{3}, 2\frac{2}{3}, 4, 5\frac{1}{3}, \underline{6\frac{2}{3}}, \underline{8}, \underline{9\frac{1}{3}}$$

$$2\frac{2}{3} - 1\frac{1}{3} = 1\frac{1}{3}$$

$$5\frac{1}{3} - 4 = 1\frac{1}{3}$$

$$2\frac{2}{3} + 1\frac{1}{3} = 4$$

$$3\frac{2}{3}$$

Ⓟ 311 - 312

2 - 46 even