

Objective 11

Add signed fractions or mixed numbers

Vocab:

Example 1

$$\left(-2\frac{7}{8}\right) + \left(-1\frac{1}{2}\right)$$

Step 1: Convert to an improper fraction if necessary

$$\left(-\frac{23}{8}\right) + \left(-\frac{3}{2}\right)$$

Step 2: Find the least common multiple of the denominators

$$\begin{array}{r} 2 \overline{) 8} \quad 2 \\ 4 \quad 1 \end{array} \quad 2 \times 4 \times 1 = 8$$

Step 3: Determine equivalent fractions

$$\left(-\frac{23}{8}\right) + \left(-\frac{12}{8}\right) =$$

Step 4: Carry out the operation

$$\left(-\frac{35}{8}\right)$$

Step 5: Convert back to a mixed number if necessary

$$-4\frac{3}{8}$$

Step 6: Reduce if necessary

(Not necessary in this problem)

Independent Practice:

$$\left(-2\frac{5}{6}\right) - \left(-1\frac{1}{4}\right)$$

$$2\frac{4}{5} - \frac{5}{8}$$

$$1\frac{2}{5} - \left(-3\frac{3}{4}\right)$$

Guided Practice:

$$\frac{9}{5} + \left(-\frac{4}{3}\right)$$

$$\left(-\frac{10}{7}\right) + \frac{1}{6}$$

$$\left(-3\frac{3}{5}\right) - 4\frac{2}{5}$$

Additional Help:

<https://www.youtube.com/watch?v=MwqgHvdKlmQ>

<http://www.showme.com/sh/?h=T8TwV9M>

