

### Objective 15

Multiply signed fractions or mixed numbers.

Step 1: Convert mixed numbers to improper fractions:

$$-1\frac{3}{4} \cdot \frac{5}{8} = -\frac{7}{4} \cdot \frac{5}{8}$$

Step 2: Carry out the multiplication across:

$$-\frac{7}{4} \cdot \frac{5}{8} = -\frac{40}{32}$$

Step 3: Change to an proper fraction:

$$-\frac{40}{32} = -1\frac{8}{32}$$

Step 4: Reduce as necessary:

$$= -1\frac{8}{32} = -1\frac{1}{4}$$

#### Independent Practice:

$$3\frac{5}{6} \cdot \left(-2\frac{1}{7}\right) =$$

$$-\frac{3}{10} \cdot \left(-\frac{7}{9}\right) =$$

#### **Guided Practice:**

Add the following integers:

$$-2\frac{4}{9} \cdot \left(-4\frac{1}{8}\right) =$$

$$-\frac{2}{5} \cdot \left(-\frac{1}{2}\right) =$$

#### **Additional Help:**

<https://www.youtube.com/watch?v=vVx7qwUf5KU>

<https://www.youtube.com/watch?v=HQ3EXyW36es>