

## Warm Up

$$1. \quad -\frac{6}{7} + -\frac{2}{7} = -\frac{8}{7}$$

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

$$2. \quad \frac{3}{5} + \frac{4}{5} = \frac{7}{5}$$

$$\boxed{1\frac{2}{5}}$$

3. Convert  $76/3$  to a mixed number

$$\boxed{25\frac{1}{3}}$$

$$\begin{array}{r} 3 \overline{)76} \\ \underline{-6} \phantom{0} \\ 16 \\ \underline{-15} \\ 1 \end{array}$$

4. Convert  $4\frac{4}{5}$  to an improper fraction

$$\boxed{\frac{24}{5}}$$

# Adding and Subtracting Fractions with unlike denominators

## Steps to adding and subtracting fractions:

**\*\*You DO NOT need to change mixed numbers to improper fractions**

1. Find common denominators
2. Add or subtract whole numbers(if mixed numbers)
3. Add or subtract numerators
4. Keep denominators the same
5. Simplify or reduce

Practice:

$$\frac{1 \times 4}{2 \times 4} + \frac{1}{8}$$

$$\frac{4}{8} + \frac{1}{8} = \boxed{\frac{5}{8}}$$

$$\begin{array}{cc} \times 7 & \times 5 \\ \times 7 & \times 5 \\ \frac{21}{35} - \frac{10}{35} = \boxed{\frac{11}{35}} \end{array}$$

$$\begin{array}{cc} \times 2 & \times 3 \\ \times 2 & \times 3 \\ -2\frac{10}{12} + 1\frac{9}{12} = \boxed{-1\frac{1}{12}} \end{array}$$

$$\begin{array}{cc} \times 8 & \times 3 \\ \times 8 & \times 3 \\ -3\frac{16}{24} - 7\frac{3}{24} = \boxed{-10\frac{19}{24}} \end{array}$$



You Try!

$$\left(-\frac{4}{5}\right) - \frac{7}{8}$$

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

$$\left(-\frac{1}{3}\right) + \frac{3}{8}$$

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

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

$$3\frac{6}{7} + \left(-1\frac{1}{7}\right)$$

