

Fractions with Like Denominators Review

Like Denominators \rightarrow bottom numbers are the same

$$\frac{1}{8} + \frac{3}{8} = \frac{4}{8} \div \frac{4}{4} = \frac{1}{2} \quad \text{Step 1: Add or Subtract the top number}$$

Step 2: Simplify / Reduce

* Simplify/Reduce \rightarrow Find the Greatest Common Factor (GCF) and divide the top and bottom by it

$$\frac{4}{8} = \frac{1, 2, \textcircled{4}}{1, 2, \textcircled{4} \cdot 2}$$

$$\frac{9}{10} - \frac{1}{10} = \frac{8}{10} \div \frac{2}{2} = \frac{4}{5} \quad \frac{8}{20} - \frac{2}{20} = \frac{6}{20} \div \frac{2}{2} = \frac{3}{10}$$

* Turning Improper Fractions into Mixed Numbers
• Improper Fraction \rightarrow big number is on top $\frac{12}{5}$

$$\frac{9}{10} + \frac{3}{10} = \frac{12}{10} = \left| \frac{2}{10} \div \frac{2}{2} = \right| \frac{1}{5}$$

$$\begin{array}{r} 1\frac{2}{10} \\ 10 \overline{)12} \\ \underline{-10} \\ 2 \end{array}$$