

$$8\frac{3}{4} \quad ? \quad 2\frac{4}{5}$$

What are you doing?

Add or Subtract

Multiply or Divide

Common Denominator

If you change the bottom you must change the top.

*Don't go to Improper Fraction

Add	Subtract
<p>Once in common denominator, add or subtract the tops and leave the bottoms the same.</p> $\begin{array}{r} 8\frac{15}{20} \\ + 2\frac{16}{20} \\ \hline 10\frac{31}{20} \end{array}$ <p>Simplify</p> $11\frac{11}{20}$	<p>If you need to borrow, you borrow the number that is in the denominator.</p> $\begin{array}{r} 7\cancel{8}\frac{15+20=35}{20} \\ - 2\frac{16}{20} \\ \hline 5\frac{19}{20} \end{array}$ <p>Simplify</p> $5\frac{19}{20}$

Improper Fraction

Horseshoe Method

*Don't go to Common Denominator

Multiply	Divide
<p>You can CROSS SIMPLIFY!!!!!!</p> $\begin{array}{r} \cancel{35}^7 \\ \cancel{4}^2 \end{array} \times \begin{array}{r} \cancel{14}^7 \\ \cancel{15}^5 \end{array}$ $\frac{49}{2}$ <p>Simplify</p> $24\frac{1}{2}$	<p>NO! Flip the 2nd fraction to its reciprocal. Then change the problem to multiplication.</p> $\begin{array}{r} \cancel{35}^5 \\ \cancel{4}^2 \end{array} \times \begin{array}{r} \cancel{5}^5 \\ \cancel{14}^7 \end{array}$ $\frac{25}{8}$ <p>Simplify</p> $3\frac{1}{8}$