

Adding Fractions w/UNlike Denominator

* IF the denominators are DIFFERENT ...
You HAVE to make them the SAME!

$$\frac{1}{2} + \frac{2}{3} =$$

$$\rightarrow \frac{1}{2} \times \frac{3}{3} = \frac{3}{6}$$

+

$$\rightarrow \frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$$

$$\frac{3}{6} + \frac{4}{6} = \frac{7}{6} = 1\frac{1}{6}$$

$$\begin{array}{r} 1\frac{1}{6} \\ 6 \overline{) 7} \\ \underline{-6} \\ 1 \end{array}$$

Step 1: Make the denominators the same by doing either the Copy Cat or the Flip-Flop Method.

Step 2: Add!

Step 3: Reduce/Simplify
OR
Turn into a mixed number

Example #1: $\frac{1}{12} + \frac{2}{3} =$

$$\frac{1}{12} \times \frac{1}{1} = \frac{1}{12}$$

+

$$\frac{2}{3} \times \frac{4}{4} = \frac{8}{12}$$

$$\frac{1}{12} + \frac{8}{12} = \frac{9}{12} \div \frac{3}{3} = \frac{3}{4}$$

$$\text{Example \#2: } \frac{1}{2} + \frac{1}{4} =$$

$$\frac{1}{2} \times \frac{2}{2} = \frac{2}{4}$$

+

$$\frac{1}{4} \times \frac{1}{1} = \frac{1}{4}$$

$$\frac{3}{4}$$

$$\text{Example \#3: } \frac{1}{6} + \frac{5}{8} =$$

$$\frac{1}{6} \times \frac{8}{8} = \frac{8}{48}$$

+

$$\frac{5}{8} \times \frac{6}{6} = \frac{30}{48}$$

$$\frac{38}{48} \div \frac{2}{2} = \frac{19}{24}$$