

Chapter 3-2 Adding and Subtracting of Fractions

$$\frac{1}{4} + \frac{1}{3}$$

So we need to make them the same.

We need to understand what the least common multiple (LCM) is?

3	3, 6, 9, 12, 15
4	4, 8, 12

$$\frac{1}{3} \times \frac{4}{4} = \frac{4}{12}$$

$$\frac{1}{4} \times \frac{3}{3} = \frac{3}{12}$$

Multiply by Equivalent fraction to the (LCM) or Least Common Denominator

$$\frac{3}{12} + \frac{4}{12} = \frac{7}{12}$$

$$\frac{1}{2} - \frac{1}{6}$$

The Denominator must be the same to ADD or SUB

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

$$\frac{3}{6} - \frac{1}{6} = \frac{2}{6} \div 2 = \frac{1}{3}$$

$$\frac{5}{6} - \frac{1}{4} =$$

4, 8, 12, 16

6, 12, 18, 24

$$\frac{5}{6} \times \frac{2}{2} = \frac{10}{12} - \frac{3}{12} = \frac{7}{12}$$

$$\frac{1}{4} \times \frac{3}{3} = \frac{3}{12}$$

In order to add and subtract fractions
you must have a common denominator.
You only add or subtract the
numerator.