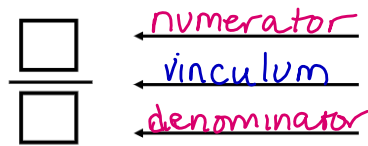


# FRACTION REVIEW



## NO DENOMINATOR? NO PROBLEM!

Any number can be made into a fraction by adding a denominator of 1.

$$5 = \frac{5}{1}$$

## NEGATIVE FRACTIONS

3 Ways to Show a Fraction is Negative:

$$-\frac{2}{3} \quad -\frac{2}{3} \quad -\frac{2}{3}$$

~~$$\left(\frac{2}{3}\right)\left(-\frac{1}{4}\right) = \frac{-2}{-12}$$~~

## EQUIVALENT FRACTIONS

If you multiply or divide the numerator and denominator by the same number, you get an equivalent fraction.

$$\begin{array}{l} \div \\ \frac{4}{12} \div 4 = \frac{1}{3} \quad \div \\ \frac{14}{16} \div 2 = \frac{7}{8} \\ * \\ \frac{3}{5} \cdot 2 = \frac{6}{10} \quad * \\ \frac{3}{4} \cdot 3 = \frac{9}{12} \end{array}$$

# REDUCING

A fraction is fully reduced when the only number that divides evenly into both the numerator and the denominator is 1.

$$\frac{120}{112} = \frac{60}{56} = \frac{30}{28} = \frac{15}{14}$$

$$\frac{84}{112} = \frac{42}{56} = \frac{6}{8} = \frac{3}{4}$$

# ADDING & SUBTRACTING

We can only add and subtract fractions if they are written with the same denominator.

1. Rewrite as improper fractions with the same denominator.
2. Add or subtract the numerator.
3. The denominator stays the same.
4. Simplify, if possible.

$$2\frac{2}{3} = \frac{8}{3}$$

$$4\frac{5}{7} = \frac{33}{7}$$

$$\frac{5}{8} - \frac{3}{8} = \frac{2}{8}$$

## Common Denominator

- \* \* that all your denominators go into evenly
- \* LCD can't be smaller than the largest denominator in the problem.

$$\frac{1}{3} + \frac{1}{6} + \frac{1}{12} *$$