

## 6-1 Adding and Subtracting Fractions with Like Denominators



**Today's Objective:** You will learn how to add and subtract with like denominators.

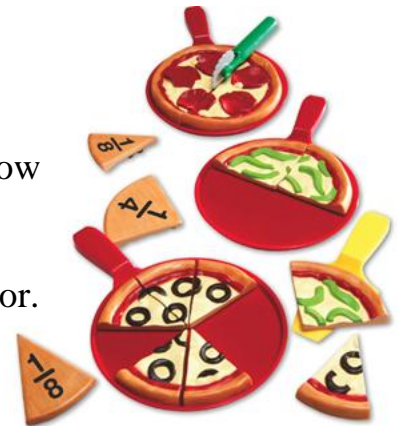
**Fraction:** a number showing part of one whole.

**Numerator:** The “top” number in the fraction. It tells how many parts you have or are talking about.

**Denominator:** The “bottom” number in a fraction. It tells how many equal parts each one whole is broken into. \*\*

**Like denominator:** two fractions with the same denominator.

**Simplest form (also known as “lowest form”):** when the GCF of the numerator and denominator is “1.”



### Interpreting Comparison Phrases:

Add: _____	Subtract: _____	Multiply: _____	Divide: _____
more than	less than	3 times the amount	½ the amount
added to	difference	twice as many	split into 5 groups
sum of	minus	product of	quotient
all together	take away	doubled	dividend
plus		factor	divisor



**To add/subtract fractions with like denominators:**

1. **add/subtract across the numerators.**
2. **the denominator acts as a label and remains the same.**
3. **put the fraction in simplest form, or change to a mixed number if possible and then put the fraction in simplest form.**

**\*\*ALL FRACTIONAL ANSWERS MUST BE IN LOWEST FORM. \*\***

**Evaluate (solve):**

**Example 1:**  $\frac{2}{9} + \frac{4}{9} = \frac{2+4}{9} = \frac{6}{9} = \frac{6 \div 3}{9 \div 3} = \frac{2}{3}$

**Example 2:**  $\frac{11}{15} + \frac{7}{15} = \frac{11+7}{15} = \frac{18}{15} = 1\frac{3}{15} = 1\frac{3 \div 3}{15 \div 3} = 1\frac{1}{5}$

**Example 3:**  $\frac{9}{10} - \frac{4}{10} = \frac{9-4}{10} = \frac{5}{10} = \frac{5 \div 5}{10 \div 5} = \frac{1}{2}$



**YOU TRY:**

1.  $\frac{2}{7} + \frac{6}{7} =$

2. 
$$\begin{array}{r} \frac{12}{18} \\ + \frac{3}{18} \end{array}$$

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