

**Lesson:** Adding and Subtracting Fractions with Like Denominators (Enrichment)

**4<sup>th</sup> Grade Objective:** 1.04 -Develop fluency with addition and subtraction of rational numbers with like denominators

**Vocabulary:**

The digit on the top of a fraction bar is known as the numerator. The numerator represents the part of a whole that we are describing.

The digit below the fraction bar is known as the denominator. The denominator represents the number of parts that are equal to one whole.

When two fractions have the same denominator, they are said to have like denominators. To add or subtract fractions with like denominators, add or subtract the numerators and write the sum or difference over the denominator (which remains the same).

**Lesson:**

$$\frac{2}{7} + \frac{3}{7} = ?$$

First add the numerators **2** and **3** together.  
Second, carry the denominator into the sum.

$$\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$$

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Subtract.

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

First subtract the numerators **4** and **1**.  
Second, carry the denominator into the difference.

$$\frac{4}{5} - \frac{1}{5} = \frac{3}{5}$$

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**Practice:** Solve. Reduce to lowest terms, and change improper fractions to mixed numbers.

$$1. \frac{3}{15} + \frac{2}{15} =$$

$$2. \frac{9}{21} + \frac{5}{21} =$$

$$3. \frac{10}{18} + \frac{1}{18} =$$

$$4. \frac{4}{14} + \frac{12}{14} =$$

$$5. \frac{4}{24} + \frac{5}{24} =$$

$$6. \frac{9}{21} + \frac{5}{21} =$$

$$7. \frac{7}{22} + \frac{5}{22} =$$

$$8. \frac{2}{9} + \frac{6}{9} =$$

$$9. \frac{12}{15} + \frac{5}{15} =$$

$$10. \frac{8}{23} + \frac{5}{23} =$$

$$11. \frac{8}{21} + \frac{12}{21} =$$

12.  $\frac{3}{14} + \frac{7}{14} =$