

Lesson: Adding and Subtracting Fractions with Like Denominators

4th 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.

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

Subtract.

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

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

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

Practice:

Directions: For Numbers 1 and 2, write the fraction for the shaded part of each figure. Then find the sum or difference.

1.



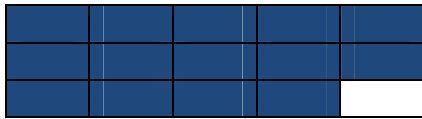
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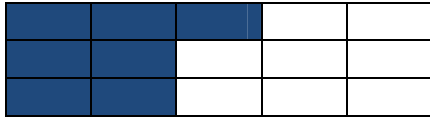
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2.



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3. Mark had a bag that was $\frac{4}{6}$ full of chips. He ate another $\frac{3}{6}$ of the bag. How much did Mark have left?

4. Sandy has $\frac{1}{8}$ of a candy bar. Doug has $\frac{6}{8}$ of a candy bar. If they put their candy bars together, how much of a whole candy bar will they have?

5.) $\frac{2}{5} + \frac{1}{5} =$ _____

6.) $\frac{13}{20} - \frac{11}{20} =$ _____

7.) $\frac{1}{12} + \frac{7}{12} =$ _____

8.) $\frac{4}{8} - \frac{1}{8} =$ _____

9.) $\frac{5}{9} + \frac{2}{9} =$ _____

10.) $\frac{8}{9} - \frac{3}{9} =$ _____

11.) $\frac{32}{80} + \frac{41}{80} =$ _____

12.) $\frac{23}{30} - \frac{17}{30} =$ _____