

# Numbers and Operations—Fractions

## Grade 5

### Vocabulary Words Your Student Will Learn

**Denominator:** The number below the line in the fraction. The denominator represents the number of equal pieces the whole is broken into

**Mixed Number:** A number that is made up of a whole number and a fraction

**Numerator:** The number above the line in a fraction. The numerator represents how many pieces of the whole, or how many parts of a set, that are discussed

**Product:** The result (answer) of multiplying a set of numbers together

**Factor:** A number that is multiplied by another (factor  $\times$  factor = product)

**Equivalent Fractions:** Two or more fractions with the same value. Example:  $1/2 = 2/4$

**Improper Fractions:** A fraction where the numerator is greater than the denominator.

### What Your Student Will Learn:

- ◆ Add and subtract fractions with unlike denominators, including mixed numbers
- ◆ Solve addition and subtraction word problems with fractions
- ◆ Solve word problems, understanding that fractions can also be a representation of a division problem whereas the denominator needs to be divided into a numerator ( $a/b = a \div b$ )
  - Interpret a fraction as division of the numerator by the denominator (for example, interpret  $3/4$  as the result of dividing 3 by 4)
  - Divide fractions to solve word problems (for example, For example, 3 wholes are shared equally among 4 people each person has a share of size  $3/4$ )
- ◆ Multiply a fraction by a whole number and other fractions
- ◆ Understand the relationship between the size of the product and the size of the factors
- ◆ Multiply fractions to solve word problems

### Everyday Activities You Can Do At Home:

- ◆ Create or pick numbers to make fractions. Add, subtract, or simplify the fractions that you find.
- ◆ Find examples of fractions around the house or neighborhood. Add, subtract, multiply, divide or simplify the fractions that you find.
- ◆ Create numbers to use in fractions. Draw these fractions as parts of a whole or set.
- ◆ Use measuring cups when baking or cooking.
- ◆ Identify the use of decimals in sporting events and in newspapers.
- ◆ Draw different shapes. Divide them into different fractions.
- ◆ Practice multiplication and division facts.