

## Vocabulary: Dividing Fractions



### Vocabulary

- **Dividend** – the number being divided in a division problem.
  - For example, in the quotient  $\frac{2}{5} \div \frac{1}{2} = \frac{4}{5}$ , the dividend is  $\frac{2}{5}$ .
- **Divisor** – the number by which the dividend is divided in a division problem
  - For example, in the quotient  $\frac{2}{5} \div \frac{1}{2} = \frac{4}{5}$ , the divisor is  $\frac{1}{2}$ .
- **Fraction** – a number that shows the relationship between a part and a whole.
  - A fraction consists of a *denominator* (bottom number) and a *numerator* (top number).
  - An *improper fraction* has a numerator that is greater than or equal to its denominator.
  - An improper fraction can be written as a *mixed number* – a whole number combined with a fraction.
- **Quotient** – the result of division.
  - For example, the quotient of  $\frac{2}{5}$  and  $\frac{1}{2}$  is  $\frac{4}{5}$ , because  $\frac{2}{5} \div \frac{1}{2} = \frac{4}{5}$ .
- **Reciprocal** – the result of switching the numerator and denominator of a fraction.
  - For example,  $\frac{5}{4}$  and  $\frac{4}{5}$  are reciprocals.
  - The product of a number and its reciprocal is always 1.
- **Simplify** – to reduce in complexity.
  - A simplified fraction is equivalent (equal) to the original fraction but has all common factors divided out of the numerator and denominator.
  - For example,  $\frac{6}{12}$  can be simplified to  $\frac{1}{2}$  by dividing the numerator and denominator by 6.
  - A fraction is in *simplest form* when the only factor the numerator and denominator have in common is 1.
    - For example,  $\frac{1}{2}$  and  $\frac{4}{7}$  are in simplest form.