

## **MULTIPLYING AND DIVIDING FRACTIONS**

## What Is Multiplying and Dividing Fractions with Unlike Denominators?

 When two fractions have unlike denominators, multiply the numerators and multiply the denominators to find the product.

For example:  $3/5 \times 2/3 = 6/15$ 

• When two fractions have unlike denominators, invert the divisor and multiply the two fractions.



For example:  $2/9 \div 3/5 \rightarrow 2/9 \times 5/3 = 10/27$ 

- To **divide** two fractions with unlike denominators,
  - First invert the divisor.

$$1/3 \div \frac{1}{2} \rightarrow \text{invert } \frac{1}{2} \text{ to } 2/1$$

After inverting the divisor, multiply the fractions

$$1/3 \div \frac{1}{2} \to 1/3 \ge 2/1 = 2/3$$

• Any number divided by 1 equals that number:

 $5 \div 1 = 5$   $34 \div 1 = 34$   $1/6 \div 1 = 1/6$ 

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• Sometimes, the product resulting from multiplication or division can be **reduced**. This means dividing by one to make the denominator a lower value.



Multiply and reduce to lowest terms: 6/7 x 1/3 =

