## NAME

Module 15 Simplifying Rational Expressions
Lesson 3 Multiplying and Dividing Rational Expressions

## Lesson Objectives

- Multiply rational expressions.
- Divide rational expressions.
- Simplify complex fractions.

The product of $\frac{a}{b} \cdot \frac{c}{d}=\frac{a c}{b d}$ , where $b, d \neq 0$.

For this entire lesson no denominator of a rational expression has a value of zero.


To divide rational expressions, multiply the first expression by the reciprocal of the second expression.

A $\qquad$ is a fraction whose numerator or
denominator includes another fraction.


To multiply rational expressions, multiply numerator by numerator and denominator by denominator.

