

## Radical Expressions

Students who study radical expressions are learning to answer the questions

*When is a radical expression more useful than its decimal equivalent?*

*What purposes do the rules for simplifying radical expressions serve?*

*What operations produce extraneous roots?*

This unit of study addresses Indiana College & Career Ready Standards as follows:

**AI.RNE.4:** Simplify square roots of non-perfect square integers and algebraic monomials.

**AI.RNE.5:** Simplify algebraic rational expressions, with numerators and denominators containing monomial bases with integer exponents, to equivalent forms.

Gaining skills in this unit will enable students to do everyday tasks like purchasing tile, getting a couch through a door, or pitching a tent. The specific skills in this unit of study include

- using the distance formula
- simplifying radical expressions
- using conjugates
- performing operations on radicals
- solving radical equations