

# 6 2 practice multiplying and dividing radical expressions form g

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How to Multiply and Divide Radical Expressions\*\*

### Multiplying Radical Expressions

- The rule for multiplying radicals is:

$$\sqrt[n]{a} * \sqrt[n]{b} = \sqrt[n]{ab}$$

- For example,  $2\sqrt{2} * 3\sqrt{2} = 6\sqrt{4} = 6 \times 2 = 12$ .

### Dividing Radical Expressions

- The rule for dividing radicals is:

$$\sqrt[n]{a} / \sqrt[n]{b} = \sqrt[n]{a/b}$$

- If a radical cannot be simplified, it is considered to be in its simplest radical form.

### Solving Radical Equations

- To solve two radical equations:
  - Isolate the radical expression on one side of the equation.
  - Square both sides of the equation.

### Adding and Combining Radical Expressions

- Radical expressions can be added and combined if they have the same radicand.

### Calculating Roots

- The square root of a number is the number that, when multiplied by itself, gives the original number.
- To calculate roots, use a calculator or the following steps:
  - Prime factorize the number.
  - Pair the prime factors in 2s.
  - Extract the square root of each pair.
  - Multiply the extracted square roots together.

### Simplifying Radical Expressions

- Simplified form of a radical expression means:
  - No perfect squares under the radical sign.
  - No fractions under the radical sign.
- Steps for simplifying square roots:
  - Extract all perfect squares from the radicand.
  - Simplify any remaining radical.

### Other Points

- An example of a radical expression is  $\sqrt{2}$ .
- Rational expressions are fraction expressions where both the numerator and denominator are polynomials.
- Two radical expressions are called similar radicals if they have the same radicand.
- Radical 2 equals  $\sqrt{2}$ , which is approximately 1.414.
- The square root symbol is called the radical sign.

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