

## Key Concept

**Solving Equations Containing Cubes** To solve an equation of the form  $x^3 = a$ , take the cube root of each side of the equation.

Given  $x^3 = 125$

Write the equation.

Take the cube root of each side.

Simplify the cube root.

Write the solution.

$$x^3 = 125$$

$$\sqrt[3]{x^3} = \sqrt[3]{125}$$

$$x = 5$$

The solution is 5.

Check

$$x^3 = 5 \cdot 5 \cdot 5$$

$$= 125$$

## Part 1

**Example Solving Equations Using Cube Roots**

Solve each equation.

a.  $x^3 = 8$

b.  $x^3 = -27$

c.  $x^3 = 64$

d.  $x^3 = -125$

**Solution**

To solve each equation, take the cube root of each side of the equation.

a.  $x^3 = 8$

$$\sqrt[3]{x^3} = \sqrt[3]{8}$$

$$x = \sqrt[3]{8}$$

$$x = 2$$

The solution

$$x = 2$$

b.  $x^3 = -27$

$$\sqrt[3]{x^3} = \sqrt[3]{-27}$$

$$x = \sqrt[3]{-27}$$

$$x = -3$$

The solution

$$x = -3$$

c.  $x^3 = 64$

$$\sqrt[3]{x^3} = \sqrt[3]{64}$$

$$x = \sqrt[3]{64}$$

$$x = 4$$

The solution

$$x = 4$$

d.  $x^3 = -125$

$$\sqrt[3]{x^3} = \sqrt[3]{-125}$$

$$x = \sqrt[3]{-125}$$

$$x = -5$$

The solution

$$x = -5$$

## Part 2

**Example Solving Equations Using Cube Roots of Fractions**

Solve  $x^3 = \frac{8}{125}$

**Solution**

**Think**

Write the equation.

Take the cube root of each side.

Simplify the cube root.

Write the solution.

Check the solution.

**Write**

$$x^3 = \frac{8}{125}$$

$$x = \sqrt[3]{\frac{8}{125}}$$

$$x = \frac{2}{5}$$

The solution is  $\frac{2}{5}$ .

$$\left(\frac{2}{5}\right)^3 = \frac{2}{5} \cdot \frac{2}{5} \cdot \frac{2}{5} = \frac{8}{125}$$

## Part 3

**Example Using Cube Roots to Solve Volume Problems**

An aquarium in the shape of a cube has a volume of 1,250 cubic inches.

- What is the exact length of one side of the aquarium?
- If your answer is not a perfect cube, approximate your answer to the nearest tenth of an inch.

**Solution**

- You can use the formula for the volume of a cube to find the length of one side.

Use the formula for the volume of a cube.

$$V = s^3$$

Substitute 1,250 for the volume.

$$1,250 = s^3$$

Take the cube root of each side.

$$\sqrt[3]{1,250} = s$$

The exact length of one side of the aquarium is  $\sqrt[3]{1,250}$  inches.

continued on next page >

# Curriculum Grade 5 Answer Key

**Nancy Roser**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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*Practice Tests for Reading and Math* Michael Priestley,2001-12      Resources in Education ,1990      **The Art of Teaching Science** Jack Hassard,2005 This is a core teaching textbook designed for the professional development of middle and high school science teachers Differing from other texts in its constructivist approach to learning and teaching it provides meaningful learning experiences and connections with the most recent research and understanding of science teaching Each chapter is organized into two sections the first focuses on the content of the major theme of the chapter while the second consists of a newspaper like feature called The Science Teaching Gazette containing a variety of strategies for extending the learning process Packed with learning tools hands on inquiry activities case studies think pieces and interviews with teachers around the world this is a remarkably comprehensive textbook designed to prepare a new cadre of science teachers Midwest

**Family Involvement in Education** ,1998      *National Assessments of Educational Achievement, Volume 4* Gerry Shiel,Fernando Cartwright,2015-02-12 This volume provides step by step details on how to analyze data collected in a national assessment with an introduction to statistical analyses normally carried out in these large scale assessments item and test analysis and a CD contains with analysis software IATA exercises and supporting data files      **Spectrum**

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