

## 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

$$\begin{aligned} x^3 &= 5 \cdot 5 \cdot 5 \\ &= 125 \end{aligned}$$

## 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 >

# Math Grade 5 Volume 2 Answer

**Joacim Rocklöv**



**Math Grade 5 Volume 2 Answer:**

## Decoding **Math Grade 5 Volume 2 Answer**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Math Grade 5 Volume 2 Answer**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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### **Table of Contents Math Grade 5 Volume 2 Answer**

1. Understanding the eBook Math Grade 5 Volume 2 Answer
  - The Rise of Digital Reading Math Grade 5 Volume 2 Answer
  - Advantages of eBooks Over Traditional Books
2. Identifying Math Grade 5 Volume 2 Answer
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Math Grade 5 Volume 2 Answer
  - User-Friendly Interface
4. Exploring eBook Recommendations from Math Grade 5 Volume 2 Answer
  - Personalized Recommendations
  - Math Grade 5 Volume 2 Answer User Reviews and Ratings
  - Math Grade 5 Volume 2 Answer and Bestseller Lists

5. Accessing Math Grade 5 Volume 2 Answer Free and Paid eBooks
  - Math Grade 5 Volume 2 Answer Public Domain eBooks
  - Math Grade 5 Volume 2 Answer eBook Subscription Services
  - Math Grade 5 Volume 2 Answer Budget-Friendly Options
6. Navigating Math Grade 5 Volume 2 Answer eBook Formats
  - ePub, PDF, MOBI, and More
  - Math Grade 5 Volume 2 Answer Compatibility with Devices
  - Math Grade 5 Volume 2 Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Math Grade 5 Volume 2 Answer
  - Highlighting and Note-Taking Math Grade 5 Volume 2 Answer
  - Interactive Elements Math Grade 5 Volume 2 Answer
8. Staying Engaged with Math Grade 5 Volume 2 Answer
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Math Grade 5 Volume 2 Answer
9. Balancing eBooks and Physical Books Math Grade 5 Volume 2 Answer
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Math Grade 5 Volume 2 Answer
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Math Grade 5 Volume 2 Answer
  - Setting Reading Goals Math Grade 5 Volume 2 Answer
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math Grade 5 Volume 2 Answer
  - Fact-Checking eBook Content of Math Grade 5 Volume 2 Answer
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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