

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. $x^3 = 8$

$$x^3 = 2^3$$

$$x = \sqrt[3]{2^3}$$

$$x = 2$$

The solution

$$\text{is } 2.$$

b. $x^3 = -27$

$$x^3 = (-3)^3$$

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

$$x = -3$$

The solution

$$\text{is } -3.$$

c. $x^3 = 64$

$$x^3 = 4^3$$

$$x = \sqrt[3]{4^3}$$

$$x = 4$$

The solution

$$\text{is } 4.$$

d. $x^3 = -125$

$$x^3 = (-5)^3$$

$$x = \sqrt[3]{(-5)^3}$$

$$x = -5$$

The solution

$$\text{is } -5.$$

Part 2

Example Solving Equations Using Cube Roots of Fractions

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

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.

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Christian Drosten



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Table of Contents Go Math Grade 5 Answer Key Davefc

1. Understanding the eBook Go Math Grade 5 Answer Key Davefc
 - The Rise of Digital Reading Go Math Grade 5 Answer Key Davefc
 - Advantages of eBooks Over Traditional Books
2. Identifying Go Math Grade 5 Answer Key Davefc
 - 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 Go Math Grade 5 Answer Key Davefc
 - User-Friendly Interface
4. Exploring eBook Recommendations from Go Math Grade 5 Answer Key Davefc
 - Personalized Recommendations
 - Go Math Grade 5 Answer Key Davefc User Reviews and Ratings
 - Go Math Grade 5 Answer Key Davefc and Bestseller Lists
5. Accessing Go Math Grade 5 Answer Key Davefc Free and Paid eBooks
 - Go Math Grade 5 Answer Key Davefc Public Domain eBooks
 - Go Math Grade 5 Answer Key Davefc eBook Subscription Services
 - Go Math Grade 5 Answer Key Davefc Budget-Friendly Options

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