

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 1,254 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 1,254 for the volume.

$$1,254 = s^3$$

Take the cube root of each side.

$$\sqrt[3]{1,254} = s$$

The exact length of one side of the aquarium is $\sqrt[3]{1,254}$ inches.

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Answer Key To Go Math Fourth Grade

Camilla Rothe



Answer Key To Go Math Fourth Grade:

This book delves into Answer Key To Go Math Fourth Grade. Answer Key To Go Math Fourth Grade is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Answer Key To Go Math Fourth Grade, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Answer Key To Go Math Fourth Grade
 - Chapter 2: Essential Elements of Answer Key To Go Math Fourth Grade
 - Chapter 3: Answer Key To Go Math Fourth Grade in Everyday Life
 - Chapter 4: Answer Key To Go Math Fourth Grade in Specific Contexts
 - Chapter 5: Conclusion
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 3. In chapter 2, this book will delve into the foundational concepts of Answer Key To Go Math Fourth Grade. The second chapter will elucidate the essential principles that must be understood to grasp Answer Key To Go Math Fourth Grade in its entirety.
 4. In chapter 3, this book will examine the practical applications of Answer Key To Go Math Fourth Grade in daily life. The third chapter will showcase real-world examples of how Answer Key To Go Math Fourth Grade can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Answer Key To Go Math Fourth Grade in specific contexts. This chapter will explore how Answer Key To Go Math Fourth Grade is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Answer Key To Go Math Fourth Grade. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Answer Key To Go Math Fourth Grade.

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