

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.

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Middle School Math Holt Rinehart & Winston,2004 **Holt Middle School Math: Math: Reading and Writing in the Content Area, Course 2** Holt Rinehart & Winston,2002-11 *Holt Mathematics* ,2007 *Chap Res Bk 14 W/ANS Holt Math CS 3 2007* Holt Rinehart & Winston,2007 Holt Math in Context Encycbrita,2006 **Foundations of Mathematics** Arthur J. Wiebe,1962 Math Course 3, Grade 8 Practice Workbook Se Holt Mcdougal,2003 **Elements of Language** Holt Rinehart & Winston,2000-10 **Holt Elements of Language** Nyp,2000-10 Math Course 2, Grade 7 Practice Workbook Se Holt Mcdougal,2003 Algebra Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1998

Analysis of Arithmetic for Mathematics Teaching Gaea Leinhardt,Ralph Putnam,Rosemary A. Hattrup,2020-11-25 This volume emerges from a partnership between the American Federation of Teachers and the Learning Research and Development Center at the University of Pittsburgh The partnership brought together researchers and expert teachers for intensive dialogue sessions focusing on what each community knows about effective mathematical learning and instruction The chapters deal with the research on and conceptual analysis of specific arithmetic topics addition subtraction multiplication division decimals and fractions or with overarching themes that pervade the early curriculum and constitute the links with the more advanced topics of mathematics intuition number sense and estimation Serving as a link between the communities of cognitive researchers and mathematics educators the book capitalizes on the recent research successes of cognitive science and reviews the literature of the math education community as well **Neighborhoods: Teacher's**

resource book (includes 7 posters in front pocket) ,1986 *Holt Pre-Algebra Technology Lab Activities* Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003-04 **Holt Algebra 1 2003** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2003

Meeting the Standards in Primary Mathematics Tony Brown,2003-09-02 This book guides readers through the professional standards and requirements to reach Qualified Teacher Status explaining what trainees need to know The author discusses the best ways of developing mathematical knowledge and teaching skills and how to acquire the professional know how needed to complete the training successfully will help readers to understand the Standards related to mathematics teaching offer detailed guidance on the primary mathematics curriculum help readers prepare for the QTS skills test help readers to develop the pedagogical knowledge that you need for effective teaching of mathematics help readers prepare for school based training provide ideas suggestions and further reading to support during their training and their NQT year This practical guide to meeting the standards is invaluable for students on primary training courses lecturers and mentors supporting trainees in mathematics education programmes and newly qualified teachers

Children's Books in Print, 2007 ,2006 Using Google Earth™ JoBea Holt,2012-02-01 Create an interactive 21st Century learning experience by integrating technology across the content areas With these easy to implement lessons students use Google Earth to connect their lives to the curriculum and locations and events around the world **New**

England Journal of Education ,1877

Forthcoming Books Rose Arny,2003-04

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