

## 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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# Motivation Math Answer Key Grade 5

**N Colangelo**



## **Motivation Math Answer Key Grade 5:**

**Close Reading with Paired Texts Level 5: Engaging Lessons to Improve Comprehension** Oczkus, Lori, 2017-03-01 Prepare fifth grade students for college and career readiness with this content packed resource Authored by Lori Oczkus and Timothy Rasinski this resource includes 12 units across the four content areas of language arts science social studies and mathematics Each unit incorporates close reading paired fiction and nonfiction text passages text dependent questions comparing and contrasting text and hands on activities to unify each week s worth of lessons Differentiation and reciprocal teaching strategies and assessment options are also included within each unit to tailor to multiple intelligences and monitor students progress

**Close Reading with Paired Texts Level 5** Lori Oczkus, Timothy Rasinski, 2015-06-01 Teach fifth grade students close reading strategies that strengthen their fluency and comprehension skills Students will read and analyze various types of texts to get the most out of the rich content Their reading skills will improve as they answer text dependent questions compare and contrast texts and learn to use close reading strategies on their own The lessons are designed to make close reading strategies accessible interactive grade appropriate and fun The lesson plans are easy to follow and offer a practical model built on research based comprehension and fluency strategies

*Close Reading with Mathematics Paired Texts* Lori Oczkus, Timothy Rasinski, 2015-06-26 Use these paired texts to test your students understanding of level 5 mathematics Students will also be assessed on their ability to evaluate and draw reasonable conclusions about the text

**Advantage Math, Gr. 4, eBook** Barbara Irvin, 2004-01-01 High Interest Skill Building for Home and School Strong skill instruction with 100 easy to use activities and tips that help make practice independent This book also features scaffolded instruction for immediate independent reading review pages at the end of each unit that offer mixed skill practice Take a Test Drive pages that provide test taking practice a fun puzzle at the end of each unit to reward success a tracking sheet that gives students a sense of accomplishment

**Advantage Math, Gr. 7, eBook** Andrew Schorr, This comprehensive resource offers 100 activity pages that make math fun while offering plenty of essential computation practice infused with a strong problem solving strand They include instruction and practice for key skills and test taking in all strands of the NCTM curriculum standards

**Advantage Math Grade 3** Creative Teaching Press, 2004-04

*Resources in Education* , 1998

**Advantage Math, Gr. 6, eBook** Beth Sycamore, Creative Teaching Press, 2004-01-01 High Interest Skill Building for Home and School Strong skill instruction with 100 easy to use activities and tips that help make practice independent This book also features scaffolded instruction for immediate independent reading review pages at the end of each unit that offer mixed skill practice Take a Test Drive pages that provide test taking practice a fun puzzle at the end of each unit to reward success a tracking sheet that gives students a sense of accomplishment

**EdPsych Modules** Cheryl Cisero Durwin, Marla Reese-Weber, 2024-12-12 EdPsych Modules by Cheryl Cisero Durwin and Marla Reese Weber uses an innovative modular approach integrating case studies drawn from real life classroom situations to address the

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*Advantage Math, Gr. 8, eBook* Linda Barr, This comprehensive resource offers 100 activity pages that make math fun while offering plenty of essential computation practice infused with a strong problem solving strand They include instruction and practice for key skills and test taking in all strands of the NCTM curriculum standards

*Easy Use and Interpretation of SPSS for Windows* George Arthur Morgan, Orlando V. Griego, 1998 This book illustrates step by step how to use SPSS 7.5 for Windows to answer both simple and complex research questions It describes in non technical language how to interpret a wide range of SPSS outputs It enables the user to develop skills on how to choose the appropriate statistics interpret the outputs and write about the outputs and the meaning of the results

*The Blue Book for the Atari Computer*, 1983

*50 Ways to Close the Achievement Gap* Carolyn J. Downey, 2009 Outlines research based strategies for developing high performing schools and fostering educational equity for all students

*Curriculum Review*, 1983

Research in Education, 1973-12

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**College and Career Ready in the 21st Century** James R. Stone III, Morgan V. Lewis, 2015-04-17 More than half of 9th graders in the United States will never complete a college degree High schools must do more than prepare some students for college They must prepare all American youth for productive lives as well as continued learning beyond high school In this timely volume two educational leaders advocate for a more meaningful high school experience To accomplish this the authors argue that we need to change the focus of our current high school reform efforts from college for all to careers for all This work shows how schools can prepare young people both for the emerging workplace and postsecondary education

IBM SPSS for Intermediate Statistics Karen C. Barrett, Nancy L. Leech, George A. Morgan, 2014-08-05 Designed to help readers analyze and interpret research data using IBM SPSS this user friendly book shows readers how to choose the appropriate statistic based on the design perform intermediate statistics including multivariate statistics interpret output and write about the results The book reviews research designs and how to assess the accuracy and reliability of data how to determine whether data meet the assumptions of statistical tests how to calculate and interpret effect sizes for intermediate statistics including odds ratios for logistic

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