

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. $x^3 = 8$

$$x^3 = 2^3$$

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

$$x = 2$$

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

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

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Step 5



Lesson 5-2

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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Topic 5

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Lesson 5-2

Fifth Grade Go Math Workbook Answer Key

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Fifth Grade Go Math Workbook Answer Key:

Five Strands of Math - Tasks Big Book Gr. 3-5 Nat Reed, Mary Rosenberg, Chris Forest, Tanya Cook, 2009-12-01
Extend your learners basic knowledge of the Five Strands of Math with our 5 book BUNDLE Our resource provides task and word problems surrounding real life scenarios Start with an in depth look at fractions and percentages with Number Operations Cut a cake into equal parts to share with friends Then solve for x in Algebraic equations Explore expressions by substituting values with numbers Move on to polygons and triangles in Geometry Extend your knowledge of symmetry by looking at rotational symmetry Go from estimating to converting Measurements with imperial and metric values Get acquainted with angles by using a protractor Finally convert Data gathered in a chart to Probability statistics The task sheets provide a leveled approach to learning starting with grade 3 and increasing in difficulty to grade 5 Aligned to your State Standards and meeting the concepts addressed by the NCTM standards reproducible task sheets drill sheets review and answer key are included

Crazy Big Book of Third Grade Activities ,2017-03-06 The Crazy Big Book of Third Grade Activities features fun ways to learn skills such as grammar and vocabulary parts of speech multiplication and division measurement Packed with puzzles this language arts and math activity book keeps kids engaged for hours A fun and effective way to promote skill mastery the Crazy Big Book of Third Grade Activities appeals to third graders with creative knowledge building activities You can use the workbook at home while traveling and during summer vacation to keep skills sharp and minds fresh Available for kindergarten to third grades the Crazy Big Book of Activities series transforms the way children learn with a fun format they can appreciate All activity books feature 544 pages of entertaining activities to help them get ahead in language arts and math

Math Trailblazers 2E G4 Teacher Implementation Guide ,2003 A research based NSF funded K5 mathematics program integrating math science and language arts Includes a Spanish translation of instructional units

Complete Book of Grade 4 ,2015-01-05 Reinforce your fourth grader s essential skills with the Complete Book of Grade 4 With the colorful lessons in this workbook your child will strengthen skills that include rounding numbers subjects and predicates library skills and main idea and details The Complete Book series provides a dynamic way for students in prekindergarten to grade 4 to master essential skills Each vivid workbook guides students through a variety of engaging activities in phonics reading comprehension math and writing Challenging concepts are presented in simple language with easy to understand examples while stickers and full color illustrations capture students interest The Complete Book series is a thorough comprehensive guide to grade level success

Ventures Level 4 Workbook with Audio CD Gretchen Bitterlin, Dennis Johnson, Donna Price, Sylvia Ramirez, K. Lynn Savage, 2013-07-12 Ventures 2nd Edition is a six level standards based ESL series for adult education ESL The Ventures 2nd Edition Level 4 Workbook provides reinforcement exercises for each lesson in the Student s Book an answer key for self study grammar charts and examples of a variety of forms and documents It also includes a self study CD for improving listening comprehension

BrainStarter Worksheets Bonnie J.

Krueger,2009-09-01 Motivate your students to break out of their fog and focus on problem solving and learning with these 10 logic worksheets Puzzles types include Sudoku picture riddles crosswords and more They are a great way to build and maintain critical thinking skills Each BrainStarter worksheet requires little time and no setup making them easy to incorporate into your daily plans *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office,1962 Includes Part 1 Number 1 Books and Pamphlets Including Serials and Contributions to Periodicals January June **The Complete Book of Reading, Grades 5 - 6** American Education Publishing,2001-07 Activities to reinforce reading and writing skills include vocabulary building reading comprehension grammar writing and test preparation **Children's Books in Print** R R Bowker Publishing,Bowker,1999-12 **Christian Home Educators' Curriculum Manual** Cathy Duffy,1995 The premiere guide for choosing homeschool curriculum For beginners or veterans Cathy helps you wade through the curriculum jungle to choose what s right for each of your children Reviews of hundreds of books games videos computer programs parent helps and much much more for all subjects Learning styles Cathy helps you determine each child s learning style then choose methods and resources that fit each child What your child needs to know what is typically taught at each grade level Which resources allow your children to work independently which work best taught one on one Identifying and dealing with learning disabilities plus a list of consultants for extra help Testing the good and bad of testing different kinds of tests where to get them testing services Addresses phone numbers faxes e mail and web sites for all publishers and distributors How to consolidate your shopping and save shipping costs Books In Print 2004-2005 Ed Bowker Staff,Staff Bowker, Ed,2004 **El-Hi Textbooks and Serials in Print** ,2006 El-Hi Textbooks in Print ,1984 **Everyday Mathematics Teacher Lesson Guide Volume 1 Grade 4** Edm,University of Chicago. School Mathematics Project,2008 The Teacher s Lesson Guide provides easy to follow lessons organized by instructional unit as well as built in mathematical content support Lessons include planning and assessment tips and multilevel differentiation strategies for all learners This English Spanish Edition provides dual language support Price List and Order Form for Mathematics Instructional Materials ,1995 **Resources in Education** ,1988 Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office,1961 Normal Instructor and Teachers World ,1921 **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office,1961 **Normal Instructor and Primary Plans** ,1921

Fifth Grade Go Math Workbook Answer Key Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Fifth Grade Go Math Workbook Answer Key**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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