

Quick Study

Math

8th Grade



This number system, exponents, radicals, functions, algebraic equations, number patterns, geometry, statistics & more!

THE NUMBER SYSTEM

Set of Rational Numbers

Rational numbers: Any number that can be written as a ratio of two integers; rational numbers include:

- **Fractions:** $\frac{1}{2}, \frac{3}{4}, -\frac{7}{8}, -\frac{12}{5}, -\frac{17}{19}$
- **Decimals:**
 - Terminating decimals: 3.5, 0.6, -7.3
 - Repeating decimals: $0.\overline{3}$, $1.\overline{333}$, $-2.\overline{98}$
- **Natural numbers:** All the counting numbers: 1, 2, 3, 4, 5, ...
- **Whole numbers:** All the counting numbers plus 0: 0, 1, 2, 3, 4, ...
- **Integers:** All whole numbers and their opposites: -5, -3, -1, 0, 1, 2, 3, ...

Tip!

Numbers that are not rational are called **irrational**.

Set of Irrational Numbers

Irrational numbers: Nonterminating and nonrepeating decimals, such as π ; irrational numbers cannot be written as the ratio of two integers, **NOT RE**. An ellipsis (...) indicates that the number does not terminate.

$$\sqrt{3} = 1.7320508...$$

$$54.7847175...$$

All non-perfect-square numbers have irrational square roots.

$$\sqrt{2} = 1.4142135...$$

Common Irrational Numbers



$$\pi = 3.1415926...$$

$$e = 2.718281...$$

$$\phi = 1.618033...$$

$$\sqrt{2} = 1.4142135...$$

Tip!

Real numbers = Set of rational numbers + Set of irrational numbers

Converting Fractions & Decimals

Every number has a decimal expression.

EX: Write $\frac{13}{50}$ as a fraction.

$$\frac{13}{50} = \frac{13}{100} \times \frac{2}{2}$$

Write $\frac{13}{100}$ as a decimal.

$$11 \div 20 = .55$$

Write $-\frac{5}{25}$ as a decimal.

$$-3 \div 25 = -.12$$

Tip!

To convert a decimal to a fraction, the number after the decimal point is the numerator, and the place value of the decimal's last digit is the denominator.

EXPONENTS & POWERS

Exponent: The number of times the base is multiplied by itself; the number of times the base is a factor.

EX: $4^5 = 4 \times 4 \times 4 \times 4 \times 4$

$$\frac{4^5}{4^2} = \frac{4 \times 4 \times 4 \times 4 \times 4}{4 \times 4} = 4^3 = 64$$

Degree of exponents: x and x^1 are the same; that is, they are both first degree; x^2 = second degree, etc.

Zero exponents: Any non-zero base to the 0 power always equals 1.

EX: $a^0 = 1$, if $a \neq 0$

EX: $a^0 = 1$

EX: $a^0 = 1$, when $a \neq 0$

EX: $(3x^2y^3)^0 = 1$, when $x \neq 0$ and $y \neq 0$

Negative exponents: Any base with a negative exponent indicates a fraction value.

EX: $a^{-2} = \frac{1}{a^2}$

EX: $a^{-2} = \frac{1}{a^2}$

EX: $(3x^2y^3)^{-2} = \frac{1}{(3x^2y^3)^2}$

Adding and subtracting with exponents: Add or subtract coefficients of like terms with the same base and exponent.

EX: $3a^2 + 5a^2 = 8a^2$

Multiplying with exponents: Add exponents if the bases are the same; simplify any coefficients.

EX: $a^2 \times a^3 = a^{2+3} = a^5$

EX: $(3a^2)(5a^3) = 15a^5$

EX: $(a^2)(a^3) = a^5$

EX: $\frac{3}{4} \times \frac{5}{4} = \frac{15}{16}$

Power of a power: Multiply the exponents.

EX: $(a^2)^3 = a^{2 \times 3} = a^6$

EX: $(a^2)^3 = a^6$

EX: $(a^2)^3 = a^6$

EX: $(a^2)^3 = a^6$

Dividing with exponents: Subtract exponents that have the same base.

EX: $a^5 \div a^2 = a^{5-2} = a^3$

EX: $\frac{12a^5}{4a^2} = 3a^3$

EX: $\frac{12a^5b^3}{4a^2b^2} = 3a^3b$

EX: $\frac{12a^5b^3}{4a^2b^2} = 3a^3b$

Tip!

Power of a product:

$$(ab)^n = a^n b^n$$

Power of a quotient:

$$\frac{a^n}{b^n} = \frac{a^n}{b^n}, \text{ if } b \neq 0$$

Scientific Notation & Powers of 10

- Used to represent very large and very small numbers
- Form of writing numbers using powers of 10

EX: $1,000,000,000 = 10^9$

EX: $100,000 = 10^5$

EX: $10,000 = 10^4$

EX: $1,000 = 10^3$

Scientific Notation for Large Numbers

For very large numbers, the power is positive.

EX: $2,890,000,000 = 2.89 \times 10^9$

- Move the decimal point to the left to get 2.89 (a number between 1 and 10)
- Count the number of places the decimal point moved
- Use the power of 10 to represent the number: 2.89×10^9

Scientific Notation for Small Numbers

For very small numbers, the power is negative.

EX: 0.0000071

- Move the decimal point to the right to get 7.1 (a number between 1 and 10)
- Count the number of places the decimal point moved
- Use the power of 10 to represent the number: 7.1×10^{-6}

Operations with Scientific Notation

Use properties of exponents to solve problems involving scientific notation.

EX:

$$(2.5 \times 10^3)(8.7 \times 10^{-2}) = 21.75 \times 10^1 = 2.175 \times 10^2$$

$$2.4 \times (3.2 \times 10^{-3}) = 7.68 \times 10^{-3}$$

$$8.22 \times 10^3 = 8.22 \times \frac{10^5}{10^2} = 1.50 \times 10^2$$

$$6.3 \times 10^2 = 6.3 \times \frac{10^5}{10^3} = 1.50 \times 10^2$$

Eighth Grade Math Study Guide

Lumos Learning

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Eighth Grade Math Study Guide:

Grade 8 Math for Students Reza Nazari, 2020-10-30 Grade 8 Students 1 Choice Recommended by Top Math Instructors and Test Prep Experts Get ready to succeed on the Grade 8 Math course with this PERFECT 8th Grade Math Textbook The perfect guide for students of every level Grade 8 Math for Students will help you incorporate the most effective methods and all the right strategies to get ready for your Grade 8 Math test This up to date guide reflects the 2021 national curriculum guidelines and will set you on the right track to hone your math skills overcome exam anxiety and boost your confidence Are you ready to ace the Grade 8 Math test Grade 8 Math for Students creates confident knowledgeable students that have all the skills they need to succeed on the Grade 8 It builds a solid foundation of mathematical concepts through easy to understand lessons and basic study guides Not only does this all inclusive book offer everything you will ever need to conquer the Grade 8 Math test but it also contains two complete Grade 8 Math tests that reflect the format and question types on the Grade 8 to help you check your exam readiness and identify where you need more practice With this book students will learn math through structured lessons complete with a study guide for each segment to help understand and retain concepts after the lesson is complete It includes everything from Content 100% aligned to national standards Complete coverage of all Grade 8 Math concepts Step by step guide for all Grade 8 Math topics Over 500 additional Grade 8 math practice questions in both multiple choice and grid in formats with answers grouped by topic so you can focus on your weak areas Abundant Math skills building exercises to help test takers approach unfamiliar question types 2 complete practice tests with detailed answers And much more With this self study guide you won t need a math tutor to pave your path to success Grade 8 Math for students is the only book you ll ever need to master Grade 8 Math concepts and ace the Grade 8 Math test Ideal for self study and classroom usage Visit www.EffortlessMath.com for Online Math Practice

Common Core Math Grade 8 Workbook Test Prep Books, 2019-07-26 Test Prep Books Common Core Math Grade 8 Workbook 8th Grade Math Workbook for Common Core Grade 8 Math Includes Detailed Answer Explanations Made by Test Prep Books experts for test takers trying to achieve a great score on the Common Core math exam This comprehensive study guide includes Quick Overview Find out what s inside this guide Test Taking Strategies Learn the best tips to help overcome your exam Introduction Get a thorough breakdown of what the test is and what s on it The Number System Expressions and Equations Functions Geometry Statistics and Probability Practice Questions Practice makes perfect Detailed Answer Explanations Figure out where you went wrong and how to improve Studying can be hard We understand That s why we created this guide Each section of the test has a comprehensive review created by Test Prep Books These reviews go into detail to cover all of the Common Core math examples The Test Prep Books Common Core math practice test questions are followed by answer explanations If you miss a question it s important to understand why That way you can avoid missing it again in the future The answer explanations will help you learn from your mistakes Knowing the latest test taking strategies

is essential for the Common Core math standards A test taker has to understand the material that is being covered They also must be familiar with test strategies These strategies are necessary to properly use the time provided They also help test takers complete the test without making any errors Test Prep Books has provided the top test taking tips Anyone planning to take this exam should take advantage of this Test Prep Books study guide Purchase it today to receive access to Common Core math worksheets Practice test questions Test taking strategies **New York State Test Prep Lumos**

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Team, 2018-08-14 Test Prep Book s STAAR Math Grade 8 STAAR Test Preparation Grade 8 Study Guide Practice Test Questions Developed by Test Prep Books for test takers trying to achieve a passing score on the STAAR Math Grade 8 exam this comprehensive study guide includes Quick Overview Test Taking Strategies Introduction Numerical Representations and Relationships Computations and Algebraic Relationships Geometry and Measurement Data Analysis and Personal Financial Literacy Practice Questions Detailed Answer Explanations Disclaimer State of Texas Assessments of Academic Readiness R and STAAR R are registered trademarks of the Texas Education Agency TEA R which was not involved in the production of and does not endorse this product Each section of the test has a comprehensive review created by Test Prep Books that goes into detail to cover all of the content likely to appear on the 8th Grade Math STAAR test The Test Prep Books STAAR Math 8th Grade practice test questions are each followed by detailed answer explanations If you miss a question it s important that you are able to understand the nature of your mistake and how to avoid making it again in the future The answer explanations will help you to learn from your mistakes and overcome them Understanding the latest test taking strategies is essential to preparing you for what you will expect on the exam A test taker has to not only understand the material that is being covered on the test but also must be familiar with the strategies that are necessary to properly utilize the time provided and get through the test without making any avoidable errors Test Prep Books has drilled down the top test taking tips for you to know Anyone planning to take the test should take advantage of the 8th Grade Math STAAR review material

practice test questions and test taking strategies contained in this Test Prep Books study guide **TNReady Test Prep: 8th Grade Math Practice Workbook and Full-Length Online Assessments** Lumos Learning,2019-11-25 The Lumos tedBook for TNReady is specifically designed to provide an efficient pathway for 8th graders succeed on the 2019 20 TNReady Assessments This Math workbook offers online access to two realistic practice tests that mirror the TNReady blueprints and a comprehensive review of 8th grade Math standards Lumos Learning programs are trusted by over 275 000 students 40 000 teachers and 20 000 schools to improve student achievement on state assessments Key Benefits of this Grade 8 TNReady Test Prep Math workbook Improves test scores on TNReady Assessments Helps students become familiar with the TNReady testing format Identifies Math skill gaps and provides targeted practice Ensures Grade 8 Math skills mastery Provides a flexible and self paced learning platform for students Printed 8th Grade Math Workbook for TNReady Practice provides Complete Grade 8 Math standards practice under each strand The Number System Expressions Two realistic TNReady practice tests that include 10 tech enhanced question types that mirror the actual assessment Tools to automatically diagnose students learning difficulties and assign remedial practice Daily Math practice through hundreds of TNReady Learning Standards Incorporating the Common Core standards aligned learning resources such as TNReady practice questions Math worksheets videos apps etc Benefits for Students 2 practice tests that mirror 2019 20 TNReady Math test blueprints Personalized Math practice assignments tailored to address each student s learning gaps Hundreds of TNReady Learning Standards Incorporating the Common Core standards aligned learning resources such as Math worksheets free math lessons math learning videos Teaching resources available to support TNReady Test Prep and skills mastery Limited access Requires additional subscription for full access Tools for differentiated instruction with individualized Math practice assignments for each student Detailed analytical standards based reports to pinpoint each student s strengths and weaknesses Discover Reports to monitor child s online practice and activity on the TNReady test practice Extended response and short response questions along with other practice resources to build Math skills Convenient access to all resources and reports through the StepUp mobile app Give your student the Lumos tedBook advantage today TNReady is the student assessment conducted by The Tennessee State Board of Education which is not affiliated with Lumos Learning Tennessee Department of Education has not endorsed the contents of this book **8th Grade New York Math for Beginners** Hamid Eslamian,2025-07-10 8th Grade New York Math Comprehensive Aligned with New York Math Standards This comprehensive 8th Grade Math Study Guide is built to support New York students preparing for the NYSTP New York State Testing Program Fully aligned with the New York State Next Generation Learning Standards it offers structured easy to follow lessons and meaningful practice perfect for classroom instruction tutoring or homeschool use Designed to support both beginner and advanced learners this guide covers key topics such as linear equations functions geometry statistics and real world problem solving Each concept is explained clearly reinforced with examples and followed by NYSTP style practice questions to build

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FSA Test Prep: 8th Grade Math Practice Workbook and Full-length Online Assessments Lumos

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EffortlessMath.com for Online Math Practice Mississippi Assessment Program Test Prep Lumos Learning, 2017-02-20
This book is designed to help students get Mississippi Assessment Program MAP 2017 18 rehearsal along with standards aligned rigorous skills practice. It includes access to online resources, 2 practice tests that mirror the Mississippi Assessment Program MAP 9 Tech enhanced item types, self-paced learning and personalized score reports. Strategies for building speed and accuracy. Instant feedback after completion of the assessments. Standards based printed workbooks. The Number System, Expressions, Equations, Functions, Geometry, Statistics, Probability. Students will have the opportunity to practice questions related to all the critical math learning objectives included in the common core state standards CCSS and college and career readiness standards CCRS. Teachers Get FREE Access to Lumos StepUp™ Basic Account. Create up to 30 students accounts and monitor their online work. Share information about class work and school activities through stickies. Easy access to Blogs, Standards, Student Reports and More. 7000 Schools, 11 000 Teachers and 120 000 Students use the Lumos Learning Study Programs to improve student achievement on the standardized tests and supplement classroom learning.

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McGraw Hill Math Grade 8, Third Edition McGraw Hill, 2022-04-29 An engaging math workbook to help your 8th grade student master the skills necessary to perform better in class and on standardized tests. Colorful, dynamic and filled with engaging activities. McGraw Hill Math Grade 8 Third Edition provides maximum educational value giving your 8th grader a student friendly learning experience to learn and practice the skills they need to do well in school and on standardized tests. Based on the curriculum standards followed by states across the U.S. McGraw Hill Math Grade 8 covers key topics with easy to follow instructions, helpful examples and more than 1 000 practice problems with answers. End of chapter tests allow your child to see where mastery has been gained and what they need to focus on. As they master each concept, your child will sharpen their problem solving skills and build the confidence they need to succeed in eighth grade math. Features include NEW Addition of real world questions and multi step problems. A state by state guide.

shows you how to focus your child's lessons The guide shows which states have adopted Common Core State Standards how each state has implemented the standards for math and outlines the standards for non Common Core states 1 000 math problems with explanations for answers A 10 Week Summer Study Plan shows you how to create the best study schedule for your child A pretest helps your child determine which skills require more attention End of chapter tests help your child assess if they've mastered the chapter's concepts Posttest at the end of the book shows your child how well they understand key concepts A glossary explains key terms that students will encounter in the book Topics covered Solving problems with rational numbers Approximating irrational numbers Ratios proportions and percents Roots and exponents Performing operations with scientific notation Analyzing and solving linear equations and pairs of linear equations Graphing proportional relationships and functions Customary and metric units of measure including conversions Geometric transformations Using the Pythagorean Theorem Solving problems involving volume of cones and spheres Analyzing patterns in bivariate data including probability

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Easy access to Blogs Standards Student Reports and More 7000 Schools 11 000 Teachers and 120 000 Students use the Lumos Learning Study Programs to improve student achievement on the standardized tests and supplement classroom learning

8th Grade Arizona Math for Beginners Hamid Eslamian,2025-07-12 *8th Grade North Carolina Math for Beginners* Hamid Eslamian,2025-07-12 **8th Grade Common Core Math Exercise Book** Elise Baniam,Michael Smith,2021-04-01

Get All the Math Prep You Need to Ace the 8th Grade Common Core Test Studying for a test is much easier when you know what will be on it particularly when you can crack it down into apparent parts You can then study each section independently 8th Grade Common Core Math Exercise Book helps you achieve the next level of professional achievement It contains over 2 500 practice problems covering every topic tested on the Common Core math grade 8 making it a critical resource for students to provide them with comprehensive practice Upgraded by our professional instructors the problems are sensibly categorized into practice sets and reflect those found on the math Common Core grade 8 in content form and style Students can build fundamental skills in math through targeted practice while easy to follow explanations help cement their understanding of the concepts assessed on the Common Core math 8th grade This user friendly resource includes simple explanations Hands on experience with all Common Core 8th grade math questions Focusing your study time on what is most important Everything you need to know for a High Score Complete review to help you master different concepts These reviews go into detail to cover all math topics on the Common Core 8th grade math Hundreds of realistic questions and drills including new practice questions 2 full length practice tests with detailed answer explanations Effective exercises to help you avoid traps and pacing yourself beat the Common Core math grade 8 It is packed with everything you need to do your best on the test and move toward your graduation Published By The Math Notion www.mathnotion.com

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8th Grade Common Core Math Workbook Reza Nazari,Ava Ross,2018-07-01

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