

# Math

## Common Core State Standards

# 8th Grade

The number system, exponents, radicals, functions, linear equations, transformations, geometry, statistics & more!

### THE NUMBER SYSTEM

#### Set of Rational Numbers

**Rational number:** The ratio of two integers; rational numbers include:

- **Fractions:**  $\frac{1}{2}$ ,  $1\frac{3}{4}$ ,  $-\frac{7}{8}$ ,  $-33\frac{1}{3}$ ,  $-\frac{12}{17}$
- **Decimals:**
  - Terminating decimals: 3.3, 0.6,  $-7.3$
  - Repeating decimals:  $0.\overline{3}$ ,  $1.\overline{513}$ ,  $-2.\overline{58}$
- **Integers:** All whole numbers and their opposites  
... -3, -2, -1, 0, 1, 2, 3, ...
- **Whole numbers:** All the counting numbers plus 0  
0, 1, 2, 3, 4, ...
- **Natural numbers:** All the counting numbers  
1, 2, 3, 4, 5, ...

**Tip!**

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

#### Set of Irrational Numbers

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

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

$$56.7840375...$$

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

$$\sqrt{5} = 2.23606...$$

#### 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

#### Decimal Expansion

Every number has a decimal expansion

EX: Write .15 as a fraction.

$$.15 = \frac{15}{100} = \frac{3}{20}$$

$$\text{Write } \frac{11}{20} \text{ as a decimal.}$$

$$11 \div 20 = .55$$

$$\text{Write } -\frac{3}{25} \text{ as a decimal.}$$

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

**Tip!**

To convert a decimal to a fraction, multiply the decimal by a power of 10 to get a whole number, divide that result by the same power of 10, and simplify.

### EXPONENTS & POWERS

**Exponents:** The number of times the base is multiplied by itself; the number of times the base is a factor

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

$$\frac{1}{4^3} = \frac{1}{64}$$

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

**Zero exponents:** Any base to the 0 power, always = 1

EX:  $4^0 = 1$

$$a^0 = 1$$

$$(3x^2y^3)^0 = 1$$

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

EX:

$$4^{-2} = \frac{1}{4^2}$$

$$x^{-3} = \frac{1}{x^3}$$

$$(x+y)^{-4} = \frac{1}{(x+y)^4}$$

**Adding and subtracting with exponents:** Add or subtract like terms with the same base and exponent

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

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

EX:  $(2a^2)(3a^2) = 12a^4$

$$(x^2)(x^3) = x^5$$

$$\left(\frac{3}{4}\right)\left(\frac{2}{4}\right) = \left(\frac{3}{4}\right)$$

**Power of a power:** If the bases are the same, multiply the exponents

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

$$(x^2)^2 = x^4$$

$$(x^2y^3)^2 = x^4y^6$$

$$(3x^2)^3 = 9x^6$$

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

EX:

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

$$\frac{-8a^4b^6}{-2a^2b^3} = 4a^2b^3$$

#### Properties of Powers

- **Product of powers:**  $a^m \cdot a^n = a^{m+n}$
- **Quotient of powers:**  $a^m \div a^n = a^{m-n}$
- **Power of a power:**  $(a^m)^n = a^{m \cdot n}$
- **Power of zero:**  $a^0 = 1$ , if  $a \neq 0$
- **Power of a product:**  $(ab)^n = a^n b^n$

• **Power of a quotient:**

$$\left(\frac{a}{b}\right)^n = \frac{a^n}{b^n}, \text{ if } b \neq 0$$

#### Scientific Notation & the Powers of 10

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

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

$$100,000 = 10^5$$

$$10,000 = 10^4$$

$$1,000 = 10^3$$

#### Scientific Notation for Large Numbers

$$2,890,000,000 = 2.890,000,000 \times 10^9$$

- 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:  $2.89 \times 10^9$

**NOTE:** For very large numbers, the power is positive

#### Scientific Notation for Small Numbers

$$0.0000073$$

- Move the decimal point to the right to get 7.3 (a number between 1 and 10)
- Count the number of places the decimal point moved
- Use the power of 10 to represent the number:  $7.3 \times 10^{-6}$

**NOTE:** For very small numbers, the power is negative

#### Operations with Scientific Notation

Use properties of exponents to solve problems involving scientific notation

EX:

$$(2.5 \times 10^2)(3.7 \times 10^{-5}) = 21.75 \times 10^{-3} = 2.175 \times 10^{-2}$$

$$2.4 \div (5.2 \times 10^{-3}) = 2.46 \times 10^{-2} = 1.246 \times 10^{-1}$$

$$\frac{8.22 \times 10^5}{6.3 \times 10^2} = \frac{8.22}{6.3} \times \frac{10^5}{10^2} = 1.30 \times 10^3$$

# Maths 8th Grade Study Guide

**Lei Shi**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Maths 8th Grade Study Guide:**

**Grade 8 Math Study Guide 2021 - 2022** Reza Nazari, 2020-10-29 A Perfect book to help your student prepares for the Grade 8 Math Test Successfully Used by Thousands of 8th Grade Students Grade 8 Math Study Guide which reflects the 2021 2022 curriculum guidelines is designed by top Math instructors and test prep experts to help students succeed on the Grade 8 Math The updated version of this comprehensive Grade 8 Math preparation book includes Math lessons extensive exercises sample Grade 8 Math questions and quizzes with answers and detailed solutions to help you hone your math skills overcome your exam anxiety boost your confidence and do your best to ace the Math exam on test day Upon completion of this perfect Grade 8 Math prep book you will have a solid foundation and sufficient practice to ace the Grade 8 Math test Not only does this all inclusive prep book offer everything you will ever need to prepare for 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 Grade 8 Math Study Guide contains many exciting and unique features to help you prepare for the Grade 8 Math test including Content 100% aligned to national standards Complete coverage of all Grade 8 Math concepts and topics which you will be tested Step by step guide for all Grade 8 Math topics Abundant Math skill building exercises to help test takers approach different question types that might be unfamiliar to them Exercises on different Grade 8 Math topics such as integers percent equations polynomials exponents and radicals 2 full length practice tests featuring new question types with detailed answers This Grade 8 Math book and other Effortless Math Education books are used by thousands of students each year to help them review core content areas brush up in math discover their strengths and weaknesses and achieve their best scores on the math tests Recommended by Test Prep Experts Visit [www.EffortlessMath.com](http://www.EffortlessMath.com) for Online Math Practice *Eureka Math Grade 8 Study Guide* Great Minds, 2016-04-20 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics CCSSM and carefully sequences the mathematical progressions into expertly crafted instructional modules The companion Study Guides to Eureka Math gather the key components of the curriculum for each grade into a single location unpacking the standards in detail so that both users and non users of Eureka Math can benefit equally from the content presented Each of the Eureka Math Curriculum Study Guides includes narratives that provide educators with an overview of what students should be learning throughout the year information on alignment to the instructional shifts and the standards design of curricular components approaches to differentiated instruction and descriptions of mathematical models The Study Guides can serve as either a self study professional development resource or as the basis for a deep group study of the standards for a particular grade For teachers who are new to the classroom or the standards the Study Guides introduce them not only to Eureka Math but also to the content of the grade level in a way they will find manageable and useful Teachers familiar with the Eureka Math curriculum will also find this resource valuable as it allows for a meaningful study of

the grade level content in a way that highlights the coherence between modules and topics The Study Guides allow teachers to obtain a firm grasp on what it is that students should master during the year The Eureka Math Curriculum Study Guide Grade 8 provides an overview of all of the Grade 8 modules including Integer Exponents and Scientific Notation The Concept of Congruence Similarity Linear Equations Examples of Functions from Geometry Linear Functions Introduction to Irrational Numbers Using Geometry

**PSAT 8/9 Math Full Study Guide** Reza Nazari, 2021-07-27 Preparing for your PSAT 8 9 Math test Looking for the best prep book to help you ace the PSAT Math test PSAT 8 9 Math Full Study Guide which reflects the 2023 test guidelines contains extensive exercises math problems sample PSAT math questions and practice tests to help you hone your math skills overcome your exam anxiety boost your confidence and do your best to succeed on the PSAT 8 9 Math test This book reviews a handful of PSAT Math topics and concepts such as Fractions Mixed numbers Integers Percent Equations Polynomials Exponents Radicals and more All topics are simply and concisely explained allowing you to develop your mathematics skills Two realistic PSAT 8 9 Math practice tests that reflect the format and question types on the PSAT will help you check your exam readiness and identify where you need more practice PSAT 8 9 Math Full Study Guide contains many exciting and unique features to help you prepare for your PSAT Math test including Content 100% aligned with the 2023 PSAT 8 9 test Complete coverage of all PSAT Math concepts which you will be tested A beginner friendly guide for all PSAT 8 9 Math topics Abundant Math skills building exercises to help you approach unfamiliar question types 2 full length PSAT Math practice tests featuring new questions with decisive answers And much more With PSAT 8 9 Math Full Study Guide you can focus on rapidly improving your PSAT Math test scores It doesn't matter if you don't have a tutor as this comprehensive PSAT Math study guide was designed for self study in mind However this book can also be used with a tutor or for classroom usage Ideal for self study and classroom usage Visit [www.EffortlessMath.com](http://www.EffortlessMath.com) for Online Math Practice

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**Roadmap to 8th Grade Math, New York Edition** Karen Lurie, 2003-11-11 If Students Need to Know It It's in This Book This book develops the Math skills of eighth graders It builds skills that will help them succeed in school and on the New York State test Why The Princeton Review We have more than 20 years of experience helping students master the skills needed to excel on standardized tests Each year we help more than 2 million students score higher and earn better grades We Know the New York State Testing Program Our experts at The Princeton Review have analyzed the New York State test and this book provides the most up to date thoroughly researched practice possible for the Grade 8 Mathematics test We break down the test into individual skills to familiarize students with the test's structure while increasing their overall skill level We Get Results We know what it takes to succeed in the classroom and on tests This book includes strategies that are proven to improve student performance We provide content review detailed lessons and practice exercises modeled on the skills tested by the New York State Grade 8 Mathematics test engaging puzzles and word problems 2 complete practice New York State Math tests

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*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](http://www.EffortlessMath.com) for Online Math Practice

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**SSAT Upper Level Math Full Study Guide**

Reza Nazari,2022-02-28 Preparing for your SSAT Upper Level Math test Looking for the best prep book to help you ace the SSAT Upper Level Math test SSAT Upper Level Math Full Study Guide which reflects the 2023 test guidelines contains extensive exercises math problems sample SSAT Upper Level math questions and practice tests to help you hone your math skills overcome your exam anxiety boost your confidence and do your best to succeed on the SSAT Upper Level Math test This book reviews a handful of SSAT Upper Level Math topics and concepts such as Fractions Mixed numbers Integers Percent Equations Polynomials Exponents Radicals and more All topics are simply and concisely explained allowing you to develop your mathematics skills Two realistic SSAT Upper Level Math practice tests that reflect the format and question types on the SSAT Upper Level will help you check your exam readiness and identify where you need more practice SSAT Upper Level Math Full Study Guide contains many exciting and unique features to help you prepare for your SSAT Upper Level Math test including Content 100% aligned with the 2023 SSAT Upper Level test Complete coverage of all SSAT Upper Level Math concepts which you will be tested A beginner friendly guide for all SSAT Upper Level Math topics Abundant Math skills building exercises to help you approach unfamiliar question types 2 full length SSAT Upper Level Math practice tests featuring new questions with decisive answers And much more With SSAT Upper Level Math Full Study Guide you can focus on rapidly improving your SSAT Upper Level Math test scores It doesn't matter if you don't have a tutor as this comprehensive SSAT Upper Level Math study guide was designed for self study in mind However this book can also be used with a tutor or for classroom usage Ideal for self study and classroom usage

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**Understanding the Math We Teach and How to Teach It, K-8** Small Marian, 2025-08-26 Dr Marian Small has written a landmark book for a wide range of educational settings and audiences from pre-service math methods courses to ongoing professional learning for experienced teachers Understanding the Math We Teach and How to Teach It K-8 focuses on the big mathematical ideas in elementary and middle school grade levels and shows how to teach those concepts using a student-centered problem-solving approach Comprehensive and Readable Dr Small helps all teachers deepen their content knowledge by illustrating core mathematical themes with sample problems clear visuals and plain language Big Focus on Student Thinking The book's tools models and discussion questions are designed to understand student thinking and nudge it forward Particularly popular features include charts listing common student misconceptions and ways to address them a table of suggested manipulatives for each topic and a list of related children's book Implementing Standards That Make Sense By focusing on key mathematics principles Understanding the Math We Teach and How to Teach It K-8 helps to explain the whys of state standards and provides teachers with a deeper understanding of number sense operations algebraic thinking geometry and other critical topics Dr Small a former dean with more than 40 years in the field conceived the book as an essential guide for teachers throughout their career Many teachers who teach at the K-8 level have not had the luxury of specialist training in mathematics yet they are expected to teach an increasingly sophisticated curriculum to an increasingly diverse student population in a climate where there are heightened public expectations They deserve help

**Review Notes and Study Guide to Hardy's Tess of the D'Urbervilles** Thomas Hardy, Robert Ackerman, 1964      **Research in Education**, 1973      **Science and Education for National Defense**

United States. Congress. Senate. Committee on Labor and Public Welfare,1958      **8th Grade Math** LearningExpress  
(Organization),2009 Express Review Guides Grammar covers all the key topics from usage to punctuations to tricky words  
while creating a solid foundation in grammar skills

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