

Math 1

Common Core
State Standards

High
School

Algebraic Expressions, Writing Equations, Solving Inequalities, Functions, Arithmetic Sequences, Systems of Equations, and more!

ALGEBRAIC EXPRESSIONS & PROPERTIES

ANSWER

A variable is a symbol that is used to represent an unknown quantity. An algebraic expression is a mathematical expression that contains one or more variables, one or more numbers, and one or more arithmetic operations.

EX1:

$$\begin{aligned}3 &= 3 \\4x &= 2x + 7 \\3x^2 &+ 7x = 1\end{aligned}$$

Order of Operations

The order of operations is a set of rules that determine which operations to perform first when evaluating a numerical expression.

1. Evaluate within grouping symbols.
2. Evaluate all powers.
3. Multiply and divide from left to right.
4. Add and subtract from left to right.

Properties of Real Numbers

For real numbers a , b , and c , the following properties are true.

Properties	Expression
Commutative Property of Addition	$a + b = b + a$
Commutative Property of Multiplication	$a \cdot b = b \cdot a$
Associative Property of Addition	$(a + b) + c = a + (b + c)$
Associative Property of Multiplication	$(a \cdot b) \cdot c = a \cdot (b \cdot c)$

Distributive Property
Additive Identity Property
Additive Inverse Property
Multiplicative Inverse Property

$$\begin{aligned}a + (b + c) &= a + b + a + c \\a + 0 &= a \\a + (-a) &= 0 \\a \cdot \left(\frac{1}{a}\right) &= 1, a \neq 0 \\a \cdot 0 &= 0\end{aligned}$$

Multiplicative Property of Zero

Parts of an Expression

A term is a number, variable, or the product of numbers and variables in an expression. Like terms are terms that have the same variables raised to the same powers. Two quantities that are being manipulated in an expression are called factors. The coefficient of a term is the numerical factor of the term. A term that consists of a number and no variables is called a constant.

REASONING WITH QUANTITIES

ANSWER

The units of a quantity can help you understand and solve multi-step problems.

Dimensional Analysis

Dimensional analysis is the process of using conversion factors to change from one set of units to another set of units.

EX1: Jamie jogged 495 feet in 45 seconds. What was her speed in miles per hour?

Write the given information as a ratio. Then use appropriate conversion factors to change units.

$$\begin{aligned}\frac{495 \text{ ft}}{45 \text{ s}} &= \frac{1 \text{ mi}}{5280 \text{ ft}} = \frac{1 \text{ mi}}{480 \text{ s}} && \text{Convert from feet to miles.} \\&= \frac{1 \text{ mi}}{1 \text{ min}} = \frac{60 \text{ mi}}{60 \text{ min}} = 1 \text{ mi} && \text{Convert from minutes to hours.}\end{aligned}$$

$$\frac{1 \text{ mi}}{60 \text{ min}} = \frac{7.5 \text{ mi}}{1 \text{ hr}} \quad \text{Convert from minutes to hours.}$$

Jamie's speed was 7.5 miles per hour.

Modeling with Appropriate Units

When modeling with quantities, it is important to choose appropriate units.

EX1: Suppose a tourist buys a map of Florida while on vacation. What might the scale of the map be? What units would represent the actual distance between cities?

The map is a small-scale drawing of the state. Distances on the map will be very small compared to the actual distances between cities. A scale for the map might be 1 cm = 250 km or 2 in. = 175 mi. The distances between the actual cities would be measured in miles or kilometers.

Accuracy & Precision

Accuracy describes how close a measured value is to the actual value.

EX1: Thomas is 5 feet 10.25 inches tall. A measurement of 5 feet 10 inches is more accurate than a measurement of 6 feet when describing his height.

Precision describes the exactness of a measurement and is dependent on the unit of measure. The precision unit is the smallest unit on the tool being used to measure. As the units of measurement get smaller, the measurement goes more precise.

EX1: A ruler that measures in millimeters is more precise than a ruler that measures in centimeters.

EX1: For a scale that gives weight in pounds and ounces, the precision unit is ounces.

WRITING EQUATIONS

ANSWER

An equation is a number sentence that states that two quantities are equal to each other. The verbal expressions *equally*, *is*, *is equal to*, and *is the same as* indicate an equation.

Verbal Expressions

The sum of a number and 5 is equal to 12.

Frank separated his DVDs into 4 equal stacks of 15 each.

Equations

$a + 5 = 12$

$4f = 15 \cdot 12$

Modeling with Equations

Equations can be used to model real-world situations and solve problems.

EX1: Roggie's little sister is 3 years younger than him. The sum of their ages is 27 years. How old is Roggie?

- Define a variable.
- Let r represent Roggie's age.
- Translate the verbal description into an equation.

Roggie's age: r

Roggie's sister's age: $r - 3$

Sum of their ages: $r + (r - 3)$

Because the sum of their ages is 27 years, the equation $r + (r - 3) = 27$ models the situation.

You can verify that the solution to the equation is $r = 15$. So, Roggie is 15 years old. In the next section, you will learn several methods for solving equations.

SOLVING EQUATIONS

ANSWER

You can use the following properties of equality to solve equations.

- **Addition Property of Equality:** If you add the same number to both sides of an equation, the two sides remain equal.
- **Subtraction Property of Equality:** If you subtract the same number from both sides of an equation, the two sides remain equal.
- **Multiplication Property of Equality:** If you multiply both sides of an equation by the same number, the two sides remain equal.
- **Division Property of Equality:** If you divide both sides of an equation by the same nonzero number, the two sides remain equal.

Solving Multi-step Equations

Equations that have multiple operations and more complicated expressions are called multi-step equations. To solve these types of equations, simplify both sides as much as you can and use the properties you have learned to undo the operations.

EX1: A coin-operated car wash costs \$1.75 plus \$0.50 per minute of use. Shawna spent \$27.75 using the car wash. Solve the equation $1.75 + 0.5x = 27.75$ to find the number of minutes, x , that she used the car wash.

$$\begin{aligned}1.75 + 0.5x &= 27.75 \\1.75 - 1.75 + 0.5x &= 27.75 - 1.75 \\0.5x &= 26 \\2(0.5x) &= 2(26) \\x &= 12\end{aligned}$$

Shawna used the car wash for 12 minutes.

Original equation

Subtract 1.75.

From each side.

Simplify.

Multiply each side by 2.

Simplify.

Math Practice 3:
Construct viable arguments and critique the reasoning of others.

Each time you apply a property of real numbers or a property of equality to transform an equation, you can justify that both sides of the equation are still equal. As you solve equations, think about which property allows you to transform it into an equivalent form.

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Science Vocabulary Quick Starts, Grades 4 - 9 Armstrong,2018-01-02 The Science Vocabulary Quick Starts resource book for fourth to ninth grades helps students review vocabulary to become skilled in using science terms in and out of the classroom This science resource book provides a quick start for the day's lesson and helps students build and maintain a powerful science vocabulary Each page features two to four quick starts Mark Twain Media Publishing Company specializes in providing engaging supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators this product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character

A Guide to Detracking Math Courses Angela Torres, Ho Nguyen, Laura Wentworth Streeter, Elizabeth Hull Barnes, Laura Wentworth, 2023-04-26 Create a pathway to equity by detracking mathematics The tracked mathematics system has been operating in US schools for decades However research demonstrates negative effects on subgroups of students by keeping them in a single math track thereby denying them access to rigorous coursework needed for college and career readiness The journey to change this involves confronting some long standing beliefs and structures in education When supported with the right structures instructional shifts coalition building and educator training and support the detracking of mathematics courses can be a primary pathway to equity The ultimate goal is to increase more students access to and achievement in higher levels of mathematics learning especially for students who are historically marginalized Based on the stories and lessons learned from the San Francisco Unified School District educators who have talked the talk and walked the walk this book provides a model for all those involved in taking on detracking efforts from policymakers and school administrators to math coaches and teachers By sharing stories of real world examples lessons learned and prompts to provoke discussion about your own context the book walks you through Designing and gaining support for a policy of detracked math courses Implementing the policy through practical shifts in scheduling curriculum professional development and coaching Supporting and improving the policy through continuous research monitoring and maintenance This book offers the big ideas that help you in your own unique journey to advance equity in your school or district's mathematics education and also provides practical information to help students in a detracked system thrive

Brain Aerobics, Grades 4 - 9 Myers,2018-01-02 The Brain Aerobics language arts book for fourth to ninth grades activates your students brains to help them learn and remember language arts concepts Students use reasoning skills and creativity to solve puzzles and complete games while reinforcing grammar concepts and highlighting vocabulary words This language arts resource book includes magic squares twisted words palindromes and more Mark Twain Media Publishing Company specializes in providing engaging supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators this product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character

Teaching to Exceed the

English Language Arts Common Core State Standards Richard Beach,Amanda Haertling Thein,Allen Webb,2012-06-25

As the new English Language Arts Common Core State Standards take hold across the United States the need grows for pre service and in service teachers to be ready to develop curriculum and instruction that addresses their requirements This timely thoughtful and comprehensive text directly meets this need It delineates a literacy practices and critical engagement curriculum framework for 6 12 English language arts education that explains and illustrates how the Standards highest and best intentions for student success can be implemented from a critical culturally relevant perspective that is firmly grounded in current literacy learning theory and research The first 6 12 English language arts methods text to be aligned with the Standards this book also addresses their limitations formalist assumptions about literacy learning limited attention to media digital literacies lack of attention to critical literacies and questionable assumptions about linking standards and text complexity to specific grade levels Specific examples of teachers using the literacy practices critical engagement curriculum framework in their classrooms shows how these limitations can be surpassed Features Moves the CCSS framework into a view that literacy is a contextualized social practice Challenges simplistic models that homogenize adolescent learners Adds the important element of critical literacy to English language arts classrooms Provides specific examples of teachers in action implementing these practices Interactive Companion Website with student and instructor resources The Website is designed to foster interactivity through participation in an online teaching planning simulation with a text video or case on one side of the screen and a chat box for instructors and students to share their reactions and planning ideas The Companion Website is linked to a wiki that serves as a repository for links activities units and further reading *Cracking the New York City SHSAT (Specialized High Schools Admissions Test), 3rd Edition* The Princeton Review,2018-05-15 CREATED FOR THE REDESIGNED EXAM Ace the new SHSAT and get into the NYC specialized high school of your choice with the full length practice tests thorough content reviews and extra drills in this helpful guidebook The New York City Specialized High School Admissions Test SHSAT was recently overhauled with changes made across the board to the test s format question types topic coverage and more Cracking the SHSAT 3rd Edition was written by The Princeton Review s team of SHSAT course experts and reflects the most up to date information and test strategies developed by teachers on the ground who have spent many hours with the SHSAT With our expertise you can walk into test day with confidence Practice Your Way to Excellence 2 full length practice tests to prepare you for the actual testing experience Detailed subject review for the newly updated English Language Arts and Mathematics sections Step by step strategies for cracking each type of test question Work Smarter Not Harder Diagnose and learn from your mistakes with in depth answer explanations See The Princeton Review s techniques in action and solidify your SHSAT knowledge Learn fundamental approaches for solving questions Take Control of Your Prep Practical and up to date information on the what when where and how of the SHSAT Tips and techniques for scoring excellence Planning and organization tips to get you all the way to test day **Cursive Writing: Instruction,**

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Student Assessment ,1991 Common Core Skills &

Strategies for Reading Level 7 Saddleback Educational Publishing,2013-09-01 The Common Core State Standards CCSS provide a consistent clear understanding of what students are expected to learn Aligning each lesson in these six Common Core titles to the CCSS ensures that students are being taught and assessed on what they are expected to learn and know The alignment helps educators think critically about their curriculum instruction and assessments as they work to ensure that their students meet the rigorous new standards Beginning with foundational skills the activities teach students what they need to learn The alignments offer a progressive development of reading comprehension skills so that students advancing through the levels are able to gain more from whatever they read Each title includes a table of contents a CCSS alignment chart 130 reproducible lessons individually aligned to the CCSS each lesson contains a discrete alignment at the bottom of the page a scope and sequence chart and an answer key

What Students Abroad are Expected to Know about Mathematics Matthew Gandal,American Federation of Teachers,1997

5 Full-Length Common Core Grade 3 Math

Practice Tests Reza Nazari,Ava Ross,2019-09-03 This book is your student ticket to ace the Common Core Math Test 5 Full Length Common Core Grade 3 Math Practice Tests which reflects the 2020 test guidelines and topics is designed to help you hone your math skills overcome your exam anxiety and boost your confidence and do your best to ace the Common Core Math Test The realistic and full length Common Core Math tests which reflect the format and question types on the Common Core show you how the test is structured and what math topics you need to master The practice test questions are followed by answer explanations to help you find your weak areas learn from your mistakes and raise your Common Core Math score The surest way to succeed on Common Core Math Test is with intensive practice in every math topic tested and that's what you will get in 5 Full Length Common Core Grade 3 Math Practice Tests This Common Core Math new edition has been updated to replicate questions appearing on the most recent Common Core Math tests This is a precious learning tool for Common Core Math test takers who need extra practice in math to improve their Common Core Math score After taking the Common Core Math practice tests in this book you will have solid foundation and adequate practice that is necessary to succeed on the Common Core Grade 3 Math test This book is your ticket to ace the Common Core Math Test 5 Full Length Common Core Grade 3 Math Practice Tests contains many exciting and unique features to help you improve your test scores

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High School Math Common-Core Geometry Test Prep Workbook Grade 9/10 Prentice HALL,2013-07-01

Making Standards Matter ,1996 **State Education Indicators** ,1990 Western Spectrum ,2000 Journal of the Senate, State of Florida Florida. Legislature. Senate,2014 The ETS Test Collection Catalog Educational Testing Service. Test Collection,1993 The major source of information on the availability of standardized tests Wilson Library BulletinCovers commercially available standardized tests and hard to locate research instruments *Teaching Secondary and Middle School Mathematics* Daniel J. Brahier,2009 In this extensively revised third edition of Teaching Secondary and Middle School Mathematics scholar and classroom teacher Daniel Brahier presents concise current and meaningful descriptions of what it takes to be an effective teacher of mathematics With up to date research classroom tested teaching ideas and a vibrant writing style this book provides essential information on curriculum teaching and assessment issues related to middle secondary mathematics Every chapter includes a contextualizing introduction scenarios and dialogues for student reflection recommended resources for further study and closing activities and discussion questions to cement chapter concepts Jacket **Proficiency Assessment in California** California. State Department of Education. Office of Program Evaluation and Research,1980 *California Policy Options* ,2004 *Resources in Education* ,1997

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