

FREE!

ALGEBRA I

LESSON

NGMLS-ALIGNED

Name: _____ Date: _____

VARIABLES AND EXPRESSIONS
NG.2.A.1.1-12.2.A.1.1



Algebra is the process of using the properties of numbers to manipulate sentences or changing quantities. These quantities are known as variables and are represented using letters to distinguish them from normal numbers. Thus we combine numbers and/or numbers together using arithmetic operations, we get what are known as expressions.

Expressions

An expression is any combination of numbers and/or variables using addition, multiplication, subtraction, division, and other operations (such as exponents).

Example #1: Review the order of operations by giving the value of each of the following purely numerical expressions. The third problem is a challenge to order operations based on the school number concepts.

Ex 1: $3 + 2 \times 7$ Ex 2: $8 - \frac{2}{3} \times 6 + 24 \div 6$ Ex 3: $4(8 - 12) - 7(5 + 2)$

Ex 4: $\frac{3^2 + 4^2 \times 2}{2 + 3}$ Ex 5: $23 + 2(36 \div 12)$ Ex 6: $\frac{2^3 + 3^2}{2 + 3}$

Knowing the order of operations is essential when we must give expressions that contain only numbers so even that complex variables, you need to be able to "read" an expression in established order to bring order to the variables.

Example #2: If the letter is represents some unknown quantity, explain the calculations/operations that each of the following expressions represent. Write both the operations and the order in which they occur.

Ex 7: $3x + 4$ Ex 8: $\frac{2x + 3}{2}$ Ex 9: $4x^2 + 9$



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Teaching to the Math Common Core State Standards F. D. Rivera, 2015-06-17 This is a methods book for preservice middle level majors and beginning middle school teachers It takes a very practical approach to learning to teach middle school mathematics in an emerging Age of the Common Core State Standards The Common Core State Standards in Mathematics CCSSM is not meant to be the official mathematics curriculum it was purposefully developed primarily to provide clear learning expectations of mathematics content that are appropriate at every grade level and to help prepare all students to be ready for college and the workplace A quick glance at the Table of Contents in this book indicates a serious engagement with the recommended mathematics underlying the Grade 5 through Grade 8 and traditional pathway Algebra I portions of the CCSSM first with issues in content practice assessment learning teaching and classroom management pursued next and in that order In this book we explore what it means to teach to the CCSSM within an alignment mindset involving content practice learning teaching and assessment The Common Core state content standards which pertain to mathematical knowledge skills and applications have been carefully crafted so that they are teachable learnable coherent fewer clearer and higher The practice standards which refer to institutionally valued mathematical actions processes and habits have been conceptualized in ways that will hopefully encourage all middle school students to engage with the content standards more deeply than merely acquiring mathematical knowledge by rote and imitation Thus in the CCSSM proficiency in content alone is not sufficient and so does practice without content which is limited Content and practice are both equally important and thus must come together in teaching learning and assessment in order to support authentic mathematical understanding This blended multisourced text is a getting smart book It prepares preservice middle level majors and beginning middle school teachers to work within the realities of accountable pedagogy and to develop a proactive disposition that is capable of supporting all middle school students in order for them to experience growth in mathematical understanding that is necessary for high school and beyond including future careers Common Core Mathematics in a PLC at Work®, Leader's Guide Timothy D. Kanold, 2012-06-15 This leader companion to the grade level teacher guides illustrates how to sustain successful implementation of the Common Core State Standards for mathematics Discover what students should learn and how they should learn it Comprehensive research affirmed analysis tools and strategies will help collaborative teams develop and assess student demonstrations of deep conceptual understanding and procedural fluency Timothy D. Kanold, Matthew R. Larson, 2015-03-11 Focus your curriculum to heighten student achievement Learn 10 high leverage team actions for mathematics instruction and assessment Discover the actions your team should take before a unit of instruction begins as well as the actions and formative assessments that should occur during instruction Examine how to most effectively reflect on assessment results and prepare for the next unit of instruction *The Five Practices in Practice [Elementary]* Margaret (Peg) Smith, Victoria Bill, Miriam Gamoran Sherin, 2019-08-14 Take a deep dive into the five practices

for facilitating productive mathematical discussions Enhance your fluency in the five practices anticipating monitoring selecting sequencing and connecting to bring powerful discussions of mathematical concepts to life in your elementary classroom This book unpacks the five practices for deeper understanding and empowers you to use each practice effectively Video excerpts vividly illustrate the five practices in action in real elementary classrooms Key questions help you set learning goals identify high level tasks and jumpstart discussion Prompts guide you to be prepared for and overcome common challenges Includes planning templates sample lesson plans and completed monitoring tools and mathematical tasks

Spectrum Test Practice, Grade 6 Spectrum,Carson-Dellosa Publishing,2013-01-02 A workbook offering sample questions and tests designed to help students become familiar with test formats and content *Educating English Learners* Joyce W. Nutta,Carine Strebel,Kouider Mokhtari,Florin M. Mihai,Edwidge Crevecoeur Bryant,2020-07-29 In *Educating English Learners* Joyce W Nutta and her colleagues offer practical tools for helping schools and teachers successfully integrate English learners into mainstream classrooms Drawing on the One Plus model presented in their award winning book *Preparing Every Teacher to Reach English Learners* the authors now turn their attention to the needs of K 12 teachers who typically have two or three English learners in their classrooms English learners are not a homogenous group and the challenges they face vary tremendously Nutta and her colleagues present protocols and case studies to help pre service and in service teachers understand the needs of English learners in their classrooms and differentiate instruction and assessment accordingly Woven throughout the book are the stories of Gero Edith Tasir and Edgar four case study students of different ages backgrounds and levels of English proficiency The authors show how the protocols they provide can be applied to adapt sample lessons for students like these across a range of grade levels subject areas and pedagogical approaches Finally the authors show how the system can be applied school wide for a collaborative approach to meeting English learners needs

Teaching Reading in the Content Areas Vicki Urquhart,Dana Frazee,2012 Based on interactive elements that apply to every reading situation the authors explain instructional strategies that work best in the subject areas and how to optimize those classrooms for reading writing and discussion Algebra 1 Workbook Answer Key Keith Williams,2013-10-01 Answer Key for the Algebra 1 Workbook *Answer Key* Donny Brusca,2014-08 Answer Key to accompany the Algebra I Common Core Regents Course Workbook by Donny Brusca Contains completely worked out solutions to all of the book s Practice Problems plus answers and citations to all of the Regents Questions Center for Math Education 2012 Common Core Algebra 1 Additional Lessons Student Workbook Grade 8/9 Prentice HALL,2011-09-01 CME Project 2013 components for Algebra 1 Extend learning beyond the textbook with helpful tools for every chapter and lesson of Algebra 1 CME Algebra 1 Companion Website

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