

GRADE 7 MATH LEARNING GUIDE

Lesson 26: Solving Linear Equations and Inequalities in One Variable Using Guess and Check Time: 1 hour

Prerequisite Concepts: Evaluation of algebraic expressions given values of the variables

About the Lesson: This lesson will deal with finding the unknown value of a variable that will make an equation true (or false). You will try to prove if the value/s from a replacement set is/are solution/s to an equation or inequality. In addition, this lesson will help you think logically via guess and check even if rules for solving equations are not yet introduced.

Objective:

In this lesson, you are expected to:

1. Differentiate between mathematical expressions and mathematical equations.
2. Differentiate between equations and inequalities.
3. Find the solution of an equation and inequality involving one variable from a given replacement set by guess and check.

Lesson Proper:

I. Activity

A mathematical expression may contain variables that can take on many values. However, when a variable is known to have a specific value, we can substitute this value in the expression. This process is called *evaluating a mathematical expression*. Instructions: Evaluate each expression under Column A if $x = 2$. Match it to its value under Column B and write the corresponding letter on the space before each item. A passage will be revealed if answered correctly.

COLUMN A

- | | |
|-----------|--------------------|
| _____ 1. | $3 + x$ |
| _____ 2. | $3x - 2$ |
| _____ 3. | $x - 1$ |
| _____ 4. | $2x - 9$ |
| _____ 5. | $\frac{1}{2}x + 3$ |
| _____ 6. | $5x$ |
| _____ 7. | $x - 5$ |
| _____ 8. | $1 - x$ |
| _____ 9. | $-4 + x$ |
| _____ 10. | $3x$ |
| _____ 11. | $14 - 5x$ |
| _____ 12. | $-x + 1$ |
| _____ 13. | $1 - 3x$ |

COLUMN B

- | | |
|----|----|
| A. | -3 |
| C. | -1 |
| E. | -5 |
| F. | 1 |
| H. | -2 |
| I. | 4 |
| L. | 5 |
| O. | 6 |
| S. | 10 |

PASSAGE: ~ _____ ~

Grade 7 Math Learning Guide Lesson 26

Patrick Vollmar



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Eureka Math Grade 7 Study Guide Great Minds, 2016-04-25 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 7 provides an overview of all of the Grade 7 modules including Ratios and Proportional Relationships Rational Numbers Expressions and Equations Percent and Proportional Relationships Statistics and Probability Geometry

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Math Curriculum Study Guide Grade 5 provides an overview of all of the Grade 5 modules including Place Value and Decimal Fractions Multi Digit Whole Number and Decimal Fraction Operations Addition and Subtraction of Fractions Multiplication and Division of Fractions and Decimal Fractions Addition and Multiplication with Volume and Areal Problem Solving with the Coordinate Plane

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Eureka Math Curriculum Study Guide Common Core,2015-03-23 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 4 provides an overview of all of the Grade 4 modules including Place Value Rounding and Algorithms for Addition and Subtraction Unit Conversions and Problem Solving with Metric Measurement Multi Digit Multiplication and Division Angle Measure and Plane Figures Fraction Equivalence Ordering and Operations Decimal Fractions and Exploring Measurement with Multiplication *Eureka Math Grade 3 Study Guide* Great Minds,2015-11-09 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 3 provides an overview of all of the Grade 3 modules including Properties of Multiplication and Division and Solving Problems with Units of 2 5 and 10 Place Value and Problem Solving with Units of Measure Multiplication and Division with Units of 0 1 6 9 and Multiples of 10 Multiplication and Area Fractions as Numbers on the Number Line and Collecting and Displaying Data *Eureka Math Grade K Study Guide* Great Minds,2015-11-09 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 K provides an overview of all of the Kindergarten modules including Numbers to 10 Two Dimensional and Three Dimensional Shapes Comparison of Length Weight Capacity and Numbers to 10 Number Pairs Addition and Subtraction to 10 Numbers 10 20 and Counting to 10 and Analyzing Comparing and Composing Shapes *Eureka Math Grade 1 Study Guide* Great Minds,2015-09-18 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 1 provides an overview of all of the Grade 1 modules including Sums and Differences to 10 Introduction to Place Value Through Addition and Subtraction Within 20 Ordering and Comparing Length Measurements as Numbers Place Value Comparison Addition and Subtraction to 40 Identifying Composing and Partitioning Shapes and Place Value Comparison Addition and Subtraction to 100 **Eureka Math Grade 4 Study Guide** Great Minds,2015-11-09 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

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Eureka Math Pre-K Study Guide Great Minds,2016-08-02 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 PK provides an overview of all of the Pre Kindergarten modules including Counting to 5 Shapes Counting to 10 Comparison of Length Weight Capacity and Numbers to 5 and Addition and Subtraction Stories and Counting to 20

Eureka Math Grade 8 Study Guide Great Minds,2016-05-16 Eureka Math is a comprehensive content rich PreK 12 curriculum that follows the focus and

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Comparison of Numbers to 1 000 Addition and Subtraction Within 200 with Word Problems to 100 Addition and Subtraction Within 1 000 with Word Problems to 100 Foundations of Multiplication and Division Problem Solving with Length Money and Data and Time Shapes and Fractions as Equal Parts of Shapes **Reader's Guide to Periodical Literature Supplement**,1922 **Resources in Education** ,2001-04 **Success in Reading and Writing** Lisa Lord,Helen Cappleman,1992 Educational resource for teachers parents and kids Classroom-Ready Rich Math Tasks, Grades K-1 Beth McCord Kobett,Francis (Skip) Fennell,Karen S. Karp,Delise Andrews,Latrenda Knighten,Jeff Shih,2021-04-12 Detailed plans for helping elementary students experience deep mathematical learning Do you work tirelessly to make your math lessons meaningful challenging accessible and engaging Do you spend hours you don t have searching for adapting and creating tasks to provide rich experiences for your students that supplement your mathematics curriculum Help has arrived Classroom Ready Rich Math Tasks for Grades K 1 details 56 research and standards aligned high cognitive demand tasks that will have your students doing deep problem based learning These ready to implement engaging tasks connect skills concepts and practices while encouraging students to reason problem solve discuss explore multiple solution pathways connect multiple representations and justify their thinking They help students monitor their own thinking and connect the mathematics they know to new situations In other words these tasks allow students to truly do mathematics Written with a strengths based lens and an attentiveness to all students this guide includes Complete task based lessons referencing mathematics standards and practices vocabulary and materials Downloadable planning tools student resource pages and thoughtful questions and formative assessment prompts Guidance on preparing launching facilitating and reflecting on each task Notes on access and equity focusing on students strengths productive struggle and distance or alternative learning environments With concluding guidance on adapting or creating additional rich tasks for your students this guide will help you give all of your students the deepest most enriching and engaging mathematics learning experience possible **Math Connects** MCGRAW HILL.,Macmillan,2007-07 English Language Learner s Guide provides additional support for English learners that can be used alone or along with core instruction in Math Connects Contains lesson activities modeling opportunities and multi level strategies to meet the needs of English language learners Moments in Mathematics Coaching Kristine Reed Woleck,2010-03-09 A must read for all mathematics teacher coaches Woleck brings us into her coaching life by sharing these cases from her work Through the engaging details of these personal stories she skillfully leads us into considering various coaching models essential coaching skills and effective coaching practices Focus questions at the end of each chapter add an incentive for readers to deepen their own practices and use this book as the basis for study groups Euthecia Hancewicz Mathematics Teacher Support Specialist Mathematics Educator Support Services Westhampton MA Woleck provides an instructive and insightful analysis of what makes coaching a powerful and capacity building resource for schools This highly engaging and informative account details how effective coaching skills develop and become refined

through research based study daily practice and ongoing reflection Mary Monroe Kolek Deputy Superintendent New Canaan Public Schools CT Follow a mathematics coach through real cases from actual school situations Kristine Reed Woleck reflects on specific cases or moments from her years as a mathematics coach unpacking and examining for readers the critical elements of mathematics teaching learning and coaching This accessible practical resource discusses what effective coaching looks like and how beginning and veteran mathematics coaches in Grades K 5 can bring about meaningful improvements in mathematics instruction The real life cases illustrate how to Incorporate key elements of coaching into practice Build trusting relationships with teachers Make effective decisions throughout the coaching cycle Reference data and the curriculum as coaching tools Use reflection to link coaching concepts to actual practice Success in Reading and Writing Helen G. Cappleman,1991-09 Educational resource for teachers parents and kids *Children's Books in Print, 2007 ,2006*

Reading to Learn in Secondary Classrooms Daniel M. Perna,Sarah F. Mahurt,2009-07-10 This text helps the reader understand that students do not just learn to read in the primary grades Students must continue to grow and become more sophisticated readers if we expect them to master varied content information and concepts The strategies in this book provide a framework to support content area teachers as they strive to engage students and increase content literacy as well as content mastery Crystal Leu Director of Curriculum Lakeland School Corporation LaGrange IN Reading a tool for learning in any subject area Although reading is an essential skill for learning in any discipline many students in today s secondary classrooms find reading tasks difficult and often fail to complete those assignments Now this proven step by step instructional model shows secondary teachers how to help students boost their reading comprehension acquire knowledge through their reading and process the information that they ve learned Providing numerous classroom examples the authors show teachers how to use research based high effect strategies before during and after reading to increase student learning in various content and subject areas Teachers learn how to help students Prepare for learning and anticipate reading assignments through pre lesson strategies such as previewing the text activating prior knowledge and developing questions Remain focused and engaged during reading assignments through strategies such as reciprocal teaching jigsaw and think alouds Process and internalize newly learned information using strategies such as graphic organizers and summaries Easy to implement this method helps secondary teachers improve students content learning and reading ability at the same time

Unveiling the Power of Verbal Art: An Mental Sojourn through **Grade 7 Math Learning Guide Lesson 26**

In a global inundated with screens and the cacophony of instant communication, the profound power and psychological resonance of verbal beauty usually disappear in to obscurity, eclipsed by the constant onslaught of noise and distractions. However, set within the lyrical pages of **Grade 7 Math Learning Guide Lesson 26**, a charming function of fictional brilliance that pulses with raw feelings, lies an wonderful trip waiting to be embarked upon. Published by a virtuoso wordsmith, that enchanting opus books readers on an emotional odyssey, delicately exposing the latent possible and profound impact stuck within the complicated web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is main styles, dissect its fascinating writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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