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Josiah Meadows

Traditional Algebra 1



08/15/2016 Learning

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Total Hours: 104 hours 36 minutes

Course Mastery (371 of 404 topics)



Josiah's State Standards Report

View Common Core Georgia Performance Standards (CCGPS) report

What Josiah Can Do

Arithmetic Readiness

Fractions <u>Mixed arithmetic operations with fractions</u> Geometry <u>Area of a triangle</u> <u>Circumference and area of a circle</u> Volume of a rectangular prism

	Identifying numbers as rational or irrational
	Plotting rational numbers on a number line
	Ordering real numbers
	Properties of Real Numbers
	Properties of real numbers
Linear Equations	Multi-Step Linear Equations
	Solving equations with zero, one, or infinitely many solutions
	Algebraic symbol manipulation: Problem type 2
	Writing Expressions and Equations
	Translating a sentence into a multi-step equation
	Applications
	Solving a word problem involving consecutive integers
	Solving a value mixture problem using a linear equation
	Word problem on unit rates associated with ratios of whole numbers:
	Decimal answers
	Finding a side length given the perimeter and side lengths with variables
	Finding the value for a new score that will yield a given mean
	Proportions
	Solving a proportion of the form $a/(x+b) = c/x$
	Percents
	Applying the percent equation
	Finding the original price given the sale price and percent discount
	Finding the percentage increase or decrease: Advanced
	Finding simple interest without a calculator
	Measurement and Unit Conversion
	Metric distance conversion with whole number values
	Converting between metric and U.S. Customary unit systems
	Converting between temperatures in Fahrenheit and Celsius
l inear Inequalities	Writing and Graphing Inequalities
	Translating a sentence into a one-sten inequality
	Linear Inequalities and Applications
	Solving a two-step linear inequality with a fractional coefficient
	Solving a linear inequality with multiple occurrences of the variable:
	Problem type 2
	Solving a linear inequality with multiple occurrences of the variable:
	Problem type 3
	Solving a decimal word problem using a two-step linear inequality
	Absolute Value Inequalities
	Solving an absolute value inequality: Problem type 2
	Solving an absolute value inequality: Problem type 4
Functions and Lines	Sets Relations and Eurotions
	Identifying functions from relations
	Vertical line test
	Granhing Lines
	Graphing a line by first finding its x- and y-intercepts
	Graphing a line by first finding its slope and v-intercepts

	Finding the slope of horizontal and vertical lines Finding the coordinate that yields a given slope Writing an equation in point-slope form given the slope and a point Writing the equations of vertical and horizontal lines through a given point Applications Writing an equation and drawing its graph to model a real-world situation: Advanced Interpreting the parameters of a linear function that models a real-world situation Application problem with a linear function: Finding a coordinate given the slope and a point Application problem with a linear function: Finding a coordinate given two points Identifying parallel and perpendicular lines from equations Writing equations of lines parallel and perpendicular to a given line through a point Direct Variation Identifying direct variation equations Identifying direct variation from ordered pairs and writing equations Absolute Value Functions Graphing an absolute value equation in the plane: Basic
Systems	Systems of Linear Equations Classifying systems of linear equations from graphs Graphically solving a system of linear equations Solving a system of linear equations with fractional coefficients Solving a system of linear equations with decimal coefficients Applications Solving a word problem using a system of linear equations of the form $Ax + By = C$ Solving a word problem using a system of linear equations of the form $y = mx + b$ Solving a value mixture problem using a system of linear equations Solving a distance, rate, time problem using a system of linear equations Systems of Linear Inequalities Graphing a system of two linear inequalities: Basic
Exponents	Properties of Exponents <u>Evaluating an expression with a negative exponent: Negative integer base</u> <u>Product rule with negative exponents</u> <u>Understanding the power rules of exponents</u> <u>Power and product rules with positive exponents</u> <u>Power and quotient rules with negative exponents: Problem type 2</u> Scientific Notation <u>Multiplying and dividing numbers written in scientific notation</u>
Polynomials and Factoring	Polynomial Expressions <u>Degree and leading coefficient of a univariate polynomial</u> <u>Multiplying conjugate binomials: Multivariate</u>

	Multiplication involving binomials and trinomials in one variable
	<u>Dividing a polynomial by a monomial: Univariate</u>
	Polynomial long division: Problem type 2
	Factoring Using the GCF
	Greatest common factor of two multivariate monomials
	Greatest common factor of three univariate monomials
	Factoring by Grouping
	Factoring out a binomial from a polynomial: GCF factoring, basic
	Factoring a univariate polynomial by grouping: Problem type 2
	Factoring a multivariate polynomial by grouping: Problem type 1
	Factoring Quadratic Trinomials
	Factoring out a constant before factoring a quadratic
	Factoring a quadratic with leading coefficient greater than 1: Problem type
	<u>3</u>
	Factoring a quadratic in two variables with leading coefficient greater than
	<u>1</u>
	Solving Quadratic Equations by Factoring
	Finding the roots of a quadratic equation of the form $ax^2 + bx = 0$
	Finding the roots of a guadratic equation with leading coefficient greater
	than 1
Quadratic Functions and	Quadratic Functions
Equations	
	Finding the vertex, x-intercepts, and axis of symmetry from the graph of a
	parabola
	Domain and range from the graph of a parabola
	<u>Graphing a parabola of the form $y = ax^2 + bx + c$: Integer coefficients</u>
	Writing an equation for a function after a vertical translation
	Quadratic Equations
	Solving a quadratic equation using the square root property: Decimal
	answers, basic
Radicals	Badical Functions
	Domain of a square root function
	Radical Expressions
	Simplifying a sum or difference of radical expressions: Multivariate
	Simplifying a product of radical expressions: Multivariate
	Simplifying a product involving square roots using the distributive property:
	Advanced
	Rationalizing the denominator of a radical expression
	Radical Equations
	Solving a radical equation that simplifies to a linear equation: Two radicals
	Pythagorean Theorem and Distance Formula
	Pythagorean Theorem
	Distance between two points in the plane: Exact answers
Rational Expressions	Rational Expressions
	Hestriction on a variable in a denominator: Linear
	Introduction to the LUIVI of two monomials
	Adding rational expressions with common denominators and binomial

	Complex fraction without variables: Problem type 2 Complex fraction involving multivariate monomials Applications Solving a work problem using a rational equation Writing an inverse variation equation Word problem on inverse variation			
Data Analysis and Probability	Data Analysis <u>Mode of a data set</u> <u>Mean and median of a data set</u>			
and many other more ele	ementary topics.			
What Josiah is Ready	to Learn Next			
Polynomials and Factoring	 Factoring Quadratic Trinomials Factoring a quadratic with a negative leading coefficient Factoring a product of a quadratic trinomial and a monomial Factoring Special Products Factoring a perfect square trinomial with leading coefficient greater than 1 Factoring a difference of squares in one variable: Advanced Solving Quadratic Equations by Factoring Solving a quadratic equation needing simplification Solving a word problem using a quadratic equation with rational roots 			
Quadratic Functions and Equations	Quadratic FunctionsFinding the x-intercept(s) and the vertex of a parabolaFinding the maximum or minimum of a quadratic functionHow the leading coefficient affects the shape of a parabolaQuadratic EquationsSolving a quadratic equation using the square root property: Decimalanswers, advancedApplying the quadratic formula: Decimal answersApplying the quadratic formula: Exact answersDiscriminant of a quadratic equation			
Radicals	Radical Functions Graphing a square root function			
Rational Expressions	Rational Expressions Domain of a rational function: Excluded values			

History

Progress Assessment	06/30/2016	90 +2 %	8	2.8	2.9
Progress Assessment	06/21/2016	86 +5 %	20	7.1	2.8
Progress Assessment	<u>06/15/2016</u>	82 +5 %	20	5.3	3.7
Progress Assessment	06/08/2016	79 +5 %	20	7.2	2.8
Progress Assessment	05/17/2016	76 +5 %	20	9.8	2.0
Progress Assessment	05/03/2016	74 +5 %	20	8.8	2.3
Progress Assessment	04/22/2016	70 +5 %	20	7.6	2.6
Progress Assessment	03/18/2016	68 +5 %	20	7.3	2.7
Progress Assessment	03/09/2016	63 +6 %	24	5.1	4.7
Progress Assessment	02/24/2016	60 +5 %	23	5.1	4.5
Progress Assessment	02/10/2016	55 +5 %	20	5.8	3.5
Progress Assessment	02/01/2016	50 +5 %	20	5.5	3.7
Progress Assessment	01/20/2016	45 +5 %	20	5.4	3.7
Initial Assessment	01/11/2016	36 +8 %	31	5.0	6.1
Free Trial Assessment	01/04/2016		0	-	-
Legend: Content mastered based on the assessment (Progress made in Learning Mode (Progress), Content that is not yet mastered (Progress), assessment not completed (Progress), Not assessed in this course (Progress)					

Learning Log

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Common Core Georgia Performance Standards (CCGPS) for Coordinate Algebra (2011) Report for Josiah Meadows on 08/15/2016

Expand the Details to see topics mastered and not mastered. Select a topic to generate sample problems/explanations.

(RL): Ready to Learn topic TD: Teacher Directed

Number and Quantity

N-Q: Quantities	
MCC9-12N-Q.1: Apply and interpret units; interpret the scale and the origin in graphs	5 out of 5
MCC9-12N-Q.2: Define appropriate quantities for the purpose of descriptive modeling	9 out of 9
MCC9-12N-Q.3: Choose appropriate levels of accuracy on measurements	TD
Algebra	
A-SSE: Seeing Structure in Expressions	
MCC9-12A-SSE.1: Interpret expressions that represent a quantity	
MCC9-12A-SSE.1.a: Interpret parts of an expression e.g., terms, factors, coefficients	5 out of 5
MCC9-12A-SSE.1.b: Interpret expressions by viewing their parts as a single entity	3 out of 3
A-CED: Creating Equations	
MCC9-12A-CED.1: Create and apply equations and inequalities in one variable	17 out of 17
MCC9-12A-CED.2: Create equations in two or more variables; graph equations	5 out of 5
MCC9-12A-CED.3: Represent constraints by equations or inequalities	5 out of 5
MCC9-12A-CED.4: Rearrange formulas to highlight a quantity of interest	3 out of 3
A-REI: Reasoning with Equations & Inequalities	
MCC9-12A-REI.1: Explain each step in solving a simple equation	TD
MCC9-12A-REI.3: Solve linear equations and inequalities in one variable	40 out of 40
MCC9-12A-REI.5: Operate on a system of equations to produce another with the same solutions	TD
MCC9-12A-REI.6: Solve systems of linear equations	7 out of 7
MCC9-12A-REI.10: Understand what the graph of an equation in two variables means	5 out of 5
MCC9-12A-REI.11 : Explain why the points where $f(x)$ intersects $g(x)$ are the solutions to $f(x)=g(x)$	TD
MCC9-12A-REI.12: Graph linear and systems of linear inequalities in two variables	4 out of 4
Functions	
F-IF: Interpreting Functions	
MCC9-12F-IF.1 : Understand functions; the graph of f is the graph of $y = f(x)$	3 out of 3
MCC9-12F-IF.2: Use and interpret function notation; evaluate functions	2 out of 2
MCC9-12F-IF.3: Recognize that sequences are functions	TD
MCC9-12F-IF.4: For a function, interpret and sketch key features	1 out of 1

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MCC9-12F-IF.7: Graph functions expressed symbolically and show key features	
MCC9-12F-IF.7.a: Graph linear functions; show intercepts, maxima, minima	11 out of 11
MCC9-12F-IF.7.e: Graph exponential functions showing intercepts and end behavior	TD
MCC9-12F-IF.9: Compare properties of two functions represented in a different way	TD
F-BF: Building Functions	
MCC9-12F-BF.1: Write a function that describes a relationship between two quantities	
MCC9-12F-BF.1.a : Determine an explicit expression, a recursive process, or steps for calculation	3 out of 3
MCC9-12F-BF.1.b: Combine standard function types using arithmetic operations	TD
MCC9-12F-BF.2: Write and use arithmetic and geometric sequences	TD
MCC9-12F-BF.3 : Identify the effect on the graph of replacing $f(x)$ by $f(x) + k$, $kf(x)$, $f(kx)$, $f(x + k)$	2 out of 3
F-LE: Linear, Quadratic, & Exponential Models	
MCC9-12F-LE.1: Distinguish situations that can be modeled with functions	
MCC9-12F-LE.1.a: Prove the way linear functions and exponential functions grow	TD
MCC9-12F-LE.1.b: Recognize situations that exhibit constant rate of change	4 out of 4
MCC9-12F-LE.1.c: Recognize situations that exhibit grow/ decay by a constant percent rate	TD
MCC9-12F-LE.2: Construct linear and exponential functions	9 out of 9
MCC9-12F-LE.3 : Observe that exponential increase exceeds that of polynomial functions	TD
MCC9-12F-LE.5: Interpret the parameters in a linear or exponential function	3 out of 3
Statistics and Probability	
S-ID: Interpreting Categorical & Quantitative Data	
MCC9-12S-ID.1: Represent data with plots on the real number line	TD
MCC9-12S-ID.2: Compare center and spread of two or more different data sets	TD
MCC9-12S-ID.3: Interpret differences in shape, center, and spread in data	TD
MCC9-12S-ID.5: Summarize and analyze data for two categories in two-way frequency tables	TD
MCC9-12S-ID.6: Represent data on two quantitative variables on a scatter plot	
MCC9-12S-ID.6.a: Fit a function to the data; use functions fitted to data to solve problems	TD
MCC9-12S-ID.6.b: Assess the fit of a function by plotting and analyzing residuals	TD
MCC9-12S-ID.6.c: Fit a linear function for a scatter plot suggesting a linear association	TD
MCC9-12S-ID.7: Interpret the slope and intercept in the context of the data	TD
MCC9-12S-ID.8: Compute and interpret the correlation coefficient of a linear fit	TD
MCC9-12S-ID.9: Distinguish between correlation and causation	TD