

LARSON'S *PREALGEBRA*

Larson's Prealgebra
correlated to
Algebra 1: Concepts and Skills
California Edition

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***Larson Prealgebra* correlated to Algebra 1: Concepts and Skills**

Algebra 1: Concepts and Skills		<i>Larson Prealgebra</i>	
		Module	Topic
Chapter 1: Connections to Algebra			
1.1	Variables in Algebra	Algebra and Expressions	Variable Expressions
1.2	Exponents and Powers	Powers and Exponents	Powers of Ten
1.3	Order of Operations	Whole Numbers and Operations	Order of Operations
		Powers and Exponents	Powers and Order of Operations
1.4	Equations and Inequalities	Algebra and Equations	All topics
		Algebra and Inequalities	All topics
1.5	Translating Words into Mathematical Symbols		
1.6	A Problem Solving Plan Using Models	Algebra and Equations	Solving an Equation Using Mental Math
		Algebra and Equations	Solving Two-Step Equations
		Algebra and Inequalities	Solving Inequalities Using Addition or Subtraction
		Algebra and Inequalities	Solving Two-Step Inequalities
		<i>Also presented in many other topics of <i>Larson Prealgebra</i>.</i>	
1.7	Tables and Graphs	Rational Numbers	Graphing Rational Numbers on a Number Line
		Statistics and Data Analysis	Pictographs
		Statistics and Data Analysis	Bar Graphs

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Algebra 1: Concepts and Skills		Larson Prealgebra	
		Module	Topic
		Statistics and Data Analysis	Circle Graphs
		<i>Also presented in many other topics of Larson Prealgebra.</i>	
1.8	An Introduction to Functions	Algebra and Expressions	An Introduction to Functions
Chapter 2: Properties of Real Numbers			
2.1	The Real Number Line	Radicals	The Real Number System
		Rational Numbers	Graphing Rational Numbers on a Number Line
2.2	Absolute Value	Integers	Absolute Value
2.3	Adding Real Numbers	Whole Numbers and Operations	Adding Whole Numbers
		Fractions	Adding Fractions with Like Denominators
		Fractions	Adding Fractions with Unlike Denominators
		Decimals	Adding Decimals
		<i>Also presented in many other topics of Larson Prealgebra.</i>	
2.4	Subtracting Real Numbers	Whole Numbers and Operations	Subtracting Whole Numbers
		Fractions	Subtracting Fractions with Like Denominators
		Mixed Numbers	Subtracting Mixed Numbers
		Decimals	Subtracting Decimals
		<i>Also presented in many other topics of Larson Prealgebra.</i>	

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2.5	Multiplying Real Numbers	Whole Numbers and Operations	Multiplying Whole Numbers
		Fractions	Multiplying Fractions
		Decimals	Multiplying Decimals
		Integers	Multiplying Integers
		<i>Also presented in many other topics of Larson Prealgebra.</i>	
2.6	The Distributive Property	Whole Numbers and Operations	Distributive Property
2.7	Combining Like Terms	Algebra and Expressions	Adding Like Terms
		Algebra and Expressions	Simplifying Algebraic Expressions
2.8	Dividing Real Numbers	Whole Numbers and Operations	Dividing Whole Numbers
		Fractions	Dividing Fractions
		Decimals	Dividing Decimals
		Integers	Dividing Integers
		<i>Also presented in many other topics of Larson Prealgebra.</i>	
Chapter 3: Solving Linear Equations			
3.1	Solving Equations Using Addition and Subtraction	Algebra and Equations	Solving Addition Equations
		Algebra and Equations	Solving Subtraction Equations
3.2	Solving Equations Using Multiplication and Division	Algebra and Equations	Solving Multiplication Equations

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		Module	Topic
		Algebra and Equations	Solving Division Equations
3.3	Solving Multi-Step Equations	Algebra and Equations	Solving Multi-Step Equations
3.4	Solving Equations with Variables on Both Sides	Algebra and Equations	Solving Equations with Variables on Both Sides
3.5	More on Linear Equations	Coordinate Geometry	Graphing Linear Equations
3.6	Solving Decimal Equations	Algebra and Equations	Solving Subtraction Equations
		Algebra and Equations	Solving Multi-Step Equations
3.7	Formulas	Geometry in the Plane	Area of a Rectangle
		Geometry in the Plane	Area of a Triangle
		<i>Also presented in many other topics of <i>Larson Prealgebra</i>.</i>	
3.8	Ratios and Rates	Ratios, Rates, and Proportions	Writing Ratios
		Ratios, Rates, and Proportions	Writing Rates
3.9	Percents	Percents	All topics
Chapter 4: Graphing Linear Equations and Functions			
4.1	The Coordinate Plane	Coordinate Geometry	The Coordinate Plane
4.2	Graphing Linear Equations	Coordinate Geometry	Graphing Linear Equations
4.3	Graphing Horizontal and Vertical Lines		

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4.4	Graphing Lines Using Intercepts	Algebraic Connections to Geometry	Graphing Lines Using Slope-Intercept Form
4.5	The Slope of a Line	Algebraic Connections to Geometry	The Slope of a Line
4.6	Direct Variation		
4.7	Graphing Lines Using Slope-Intercept Form	Algebraic Connections to Geometry	Graphing Lines Using Slope-Intercept Form
4.8	Functions and Relations	Algebra and Expressions	An Introduction to Functions
Chapter 5: Writing Linear Equations			
5.1	Slope-Intercept Form	Algebraic Connections to Geometry	Graphing Lines Using Slope-Intercept Form
5.2	Point-Slope Form		
5.3	Writing Linear Equations Using Two Points		
5.4	Standard Form		
5.5	Modeling with Linear Equations	Coordinate Geometry	Graphing Linear Equations
5.6	Perpendicular Lines	More Geometry in the Plane	Intersecting, Parallel, and Perpendicular Lines
Chapter 6: Solving and Graphing Linear Inequalities			
6.1	Solving Inequalities Using Addition or Subtraction	Algebra and Inequalities	Solving Inequalities Using Addition or Subtraction
6.2	Solving Inequalities Using Multiplication or Division	Algebra and Inequalities	Solving Inequalities Using Multiplication or Division
6.3	Solving Multi-Step Inequalities		
6.4	Solving Compound Inequalities Involving “And”		

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6.5	Solving Compound Inequalities Involving “Or”		
6.6	Solving Absolute-Value Equations		
6.7	Solving Absolute-Value Inequalities		
6.8	Graphing Linear Inequalities in Two Variables	Coordinate Geometry	Graphing Linear Inequalities in Two Variables
Chapter 7: Systems of Linear Equations and Inequalities			
7.1	Graphing Linear Systems		
7.2	Solving Linear Systems by Substitution		
7.3	Solving Linear Systems by Linear Combination		
7.4	Linear Systems and Problem Solving		
7.5	Special Types of Linear Systems		
7.6	Systems of Linear Inequalities		
Chapter 8: Exponents and Exponential Functions			
8.1	Multiplication Properties of Exponents	Powers and Exponents	Multiplying Powers
8.2	Zero and Negative Exponents	Integers	Negative and Zero Exponents
8.3	Graphs of Exponential Functions		
8.4	Division Properties of Exponents	Powers and Exponents	Dividing Powers
8.5	Scientific Notation	Integers	Scientific Notation
		Integers	Scientific Notation: Multiplying and Dividing
8.6	Exponential Growth Functions		
8.7	Exponential Decay Functions		

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Chapter 9: Quadratic Equations and Functions			
9.1	Square Roots	Radicals	Writing Square Roots
9.2	Solving Quadratic Equations by Finding Square Roots		
9.3	Simplifying Radicals		
9.4	Graphing Quadratic Functions		
9.5	Solving Quadratic Functions by Graphing		
9.6	Solving Quadratic Equations by the Quadratic Formula		
9.7	Using the Discriminant		
9.8	Graphing Quadratic Inequalities		
Chapter 10: Polynomials and Factoring			
10.1	Adding and Subtracting Polynomials		
10.2	Multiplying Polynomials		
10.3	Special Products of Polynomials		
10.4	Solving Quadratic Equations in Factored Form		
10.5	Factoring $x^2 + bx + c$		
10.6	Factoring $ax^2 + bx + c$		
10.7	Factoring Special Products		
10.8	Factoring Cubic Polynomials		
Chapter 11: Rational Expressions and Equations			
11.1	Proportions	Ratios, Rates, and Proportions	Writing Proportions
		Ratios, Rates, and Proportions	Solving Proportions
11.2	Direct and Inverse Variation		
11.3	Simplifying Rational Expressions	Algebra and Expressions	Simplifying Algebraic Expressions
11.4	Multiplying and Dividing Rational Expressions		

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11.5	Adding and Subtracting with Like Denominators	Fractions	Adding Fractions with Like Denominators
		Fractions	Subtracting Fractions with Like Denominators
11.6	Adding and Subtracting with Unlike Denominators	Fractions	Adding Fractions with Unlike Denominators
		Fractions	Subtracting Fractions with Unlike Denominators
11.7	Rational Equations		
Chapter 12: Radicals and More Connections to Geometry			
12.1	Functions Involving Square Roots		
12.2	Operations with Radical Expressions		
12.3	Solving Radical Equations		
12.4	Rational Exponents		
12.5	Completing the Square		
12.6	The Pythagorean Theorem and Its Converse	Algebraic Connections to Geometry	The Pythagorean Theorem and Its Converse
12.7	The Distance Formula	Algebraic Connections to Geometry	The Distance Formula
12.8	The Midpoint Formula	Algebraic Connections to Geometry	The Midpoint Formula
12.9	Logical Reasoning: Proof		