DesCartes: A Continuum of Learning®

Mathematics
Goal: Operations and Algebraic Thinking

Skills and Concepts to Enhance (73% Probability*) 171 - 180	Skills and Concepts to Develop (50% Probability*) 181 - 190	Skills and Concepts to Introduce (27% Probability*) 191 - 200
Expressions and Equations	**Expressions and Equations**	**Expressions and Equations**
• Represents a basic facts addition problem with a number sentence • Solves basic-facts open sentences - addition and subtraction • Solves linear equations with basic facts - 1-step addition using a letter for the variable • Solves basic facts open sentences - multiplication and division • Writes a number sentence for a simple problem solving situation • Writes equivalent forms of whole number expressions (e.g., 15 + 5 = 10 + 10)	• Solves real-world whole number problems involving subtraction with numbers under 1000 • Demonstrates an understanding of the zero property of multiplication • Solves basic facts addition and subtraction open sentences using diagrams and models (e.g., using balances) • Solves linear equations with basic facts - 1-step addition using a letter for the variable • Solves 1-step open sentences with missing addends (numbers 100 and under) • Writes a number sentence for a simple problem solving situation • Writes equivalent forms of whole numbers 11 to 20 using addition (e.g., 14 = 7 + 7)	• Solves real-world whole number problems involving subtraction with numbers under 1000 • Solves whole number subtraction word problems with numbers over 1000 • Evaluates numerical expressions using grouping symbols (whole numbers only) • Demonstrates an understanding of the zero property of multiplication • Computes half price (multiplication/division) • Uses algebraic reasoning to solve problems involving equality relationships • Solves 1-step open sentences with missing addends (numbers 100 and under) • Solves 1-step open sentences with missing addends (numbers over 100) • Solves simple open sentences with missing factors (numbers 100 and under) • Solves 2-step open sentences with missing addends • Writes equivalent forms of whole numbers 11 to 20 using addition (e.g., 14 = 7 + 7)
Use Functions to Model Relationships	**Use Functions to Model Relationships**	**Use Functions to Model Relationships**
• Extends a growing arithmetic pattern, defined by numbers • Analyzes a growing, arithmetic pattern with numbers to determine the rule	• Extends a growing arithmetic pattern, defined by numbers • Analyzes a growing, arithmetic pattern with numbers to determine the rule • Identifies transformations of plane figures (translations/slides) • Reads data in a line graph - no calculations	• Extends a growing arithmetic pattern, defined by objects or diagrams • Analyzes a growing, arithmetic pattern with numbers to determine the rule • Completes a simple function table based on real-life situations (e.g., the number of tricycles related to the number of wheels) • Reads data in a line graph - no calculations
New Vocabulary: None	*New Vocabulary:* None	*New Vocabulary:* longer
New Signs and Symbols: None	*New Signs and Symbols:* × multiplication	*New Signs and Symbols:* ( ) order of operations, ÷ division, $ dollar sign