DesCartes: A Continuum of Learning®

Mathematics
Goal: Operations and Algebraic Thinking

RIT Score Range: 161 - 170
Statements Last Updated: Mar 10, 2014

Skills and Concepts to Enhance (73% Probability*) < 161	Skills and Concepts to Develop (50% Probability*) 161 - 170	Skills and Concepts to Introduce (27% Probability*) 171 - 180
Represent and Solve Problems	Represent and Solve Problems	Represent and Solve Problems
• Uses models to construct whole number addition facts with addends through 10 • Adds two 1-digit numbers with sums to 10 in horizontal format	• Uses a number line to construct addition facts with sums through 20 (whole numbers) • Adds two 1-digit numbers with sums to 10 in horizontal format • Adds two 1-digit numbers with sums between 10 and 19 in horizontal format • Adds two 1-digit numbers with sums between 10 and 19 in vertical format • Solves real-world whole number addition problems with sums to 20 (result unknown) • Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only) • Subtracts two 1-digit numbers vertically • Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12 • Solves basic-facts open sentences - addition and subtraction	• Uses a number line to construct addition facts with sums through 20 (whole numbers) • Solves real-world whole number addition problems with sums to 20 (result unknown) • Solves real-world whole number addition problems with sums to 20 (start unknown) • Solves real-world whole number addition problems with sums to 100 (result unknown) • Represents a basic facts addition problem with a number sentence • Subtracts a 1-digit number from a 2-digit number that is less than 20 (whole numbers only) • Solves real-world whole number problems involving subtraction with numbers under 20 • Instantly recalls basic multiplication facts where one factor is 0-5 and the other factor is 0-12 • Multiplies basic facts to 10 x 10 vertically • Adds 1-digit numbers with sums to 18 (with parentheses) • Recognizes addition and subtraction fact families through 18 • Solves basic-facts open sentences - addition and subtraction • Solves basic facts open sentences - multiplication and division • Determines the operation needed from a simple problem • Writes a number sentence for a simple problem solving situation • Counts by 2's to 100 • Writes equivalent forms of whole number expressions (e.g., 15 + 5 = 10 + 10)
Analyze Patterns and Relationships	Analyze Patterns and Relationships	Analyze Patterns and Relationships
		• Extends a growing arithmetic pattern, defined by numbers • Analyzes a growing, arithmetic pattern with numbers to determine the rule
New Vocabulary: None	*New Vocabulary:* None	*New Vocabulary:* fact family
New Signs and Symbols: None	*New Signs and Symbols:* + addition, = is equal to, × multiplication, - subtraction, variable	*New Signs and Symbols:* ( ) order of operations, | tally mark