

**Washington State Standards
correlated to
Merit Software Math Programs**

The Office of Superintendent of Public Instruction is currently (November 2003) updating academic content standards — Essential Academic Learning Requirements — in Reading, Mathematics and Science. The refined standards will include K-10 Grade Level Expectations (GLEs) which provide more detailed information for educators, students and parents and further be used to create new ESEA Reading and Mathematics assessments for grades 3-8 and 10, beginning in 2006.

Merit’s Math programs address the following Washington State Standards:

Grades 3-5 pg. 1-8
Grades 6-10 pg. 9-19

Grades 3-5

Subhead	EALR	Component	Benchmark	Merit Software
Math	1 - The student understands and applies the concepts and procedures of mathematics..	1.1 understand and apply concepts and procedures from number sense	number and numeration - demonstrate understanding of whole and fractional numbers, and place value in whole numbers using objects, pictures, or symbols	Word Problem Shape-Up Set 1, 2, 3; Fraction Shape-Up
Math	1 - The student understands and applies the concepts and procedures of mathematics..	1.1 understand and apply concepts and procedures from number sense	number and numeration - identify, compare, and order whole numbers and simple fractions	Word Problem Shape-Up Set 1, 2, 3; Fraction Shape-Up
Math	1 - The student understands and applies the concepts and procedures of mathematics..	1.1 understand and apply concepts and procedures from number sense	number and numeration - demonstrate an understanding of the properties of whole numbers	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics..	1.1 understand and apply concepts and procedures from number sense	computation - add, subtract, multiply, and divide whole numbers	Word Problem Shape-Up Set 1, 2, 3

Math	1 - The student understands and applies the concepts and procedures of mathematics..	1.1 understand and apply concepts and procedures from number sense	computation - use mental arithmetic, pencil and paper, or calculator as appropriate to the task involving whole numbers	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics..	1.1 understand and apply concepts and procedures from number sense	estimation - identify situations involving whole numbers in which estimation is useful	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics..	1.1 understand and apply concepts and procedures from number sense	estimation - use estimation to predict computation results and to determine the reasonableness of answers, for example, estimating a grocery bill	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	attributes and dimensions - understand concepts of perimeter, area, and volume	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	attributes and dimensions - use directly measurable attributes such as length, perimeter, area, volume/capacity, angle, weight/mass, time, money, and temperature to describe and compare objects	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	approximation and precision - understand that measurement is approximate	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	approximation and precision - know when to estimate and use estimation to determine when measurements are reasonable, or to obtain Math approximations, for Math example, estimating the Math length of the playground by pacing it off	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	systems and tools - understand the benefits of using standard units of measurement for measuring length, area, and volume	Word Problem Shape-Up Set 1, 2, 3

Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	systems and tools - understand appropriate units of measure for time, money, length, area, volume/capacity, weight/mass, and temperature	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	systems and tools - select and use appropriate tools for measuring time, money, length, area, volume, mass, and temperature	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	properties and relationships - use attributes of geometric shapes and properties of parallel and perpendicular to identify, name, compare, and sort geometric shapes and figures	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	properties and relationships - recognize geometric shapes in the surrounding environment, for example, identify rectangles within windows	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	properties and relationships - understand concepts of symmetry, congruence, and similarity	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	properties and relationships - draw and build simple shapes and figures using appropriate tools, such as a straightedge, ruler, protractor, or nets	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	locations and transformations - locate and describe the location of objects on a number line, map, or a coordinate grid in the first quadrant	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	locations and transformations - understand and draw simple geometric transformations using translations (slides), reflections (flips), or rotations (turns)	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	probability - understand the difference between certain and uncertain events	Word Problem Shape-Up Set 1, 2, 3

Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	probability - know how to list all possible outcomes of simple experiments	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	probability - understand and use experiments to investigate uncertain events	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	statistics - collect data in an organized way	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	statistics - organize and display data in numerical and graphical forms such as tables, charts, pictographs, and bar graphs	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	statistics - understand measures of central tendency such as mean, median, and mode in describing data	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	statistics - identify how data can be used to support a point of view	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	prediction and inference - predict outcomes of simple activities and compare predictions to experimental results	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	prediction and inference - understand and make inferences based on experimental results using coins, number cubes, spinners, etc.	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	patterns - recognize, extend, and create patterns of numbers, shapes, or objects such as beans, toothpicks, pattern blocks, cubes, colored tiles	Word Problem Shape-Up Set 1, 2, 3

Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	patterns - write a rule for a pattern based on a single arithmetic operation between terms, such as a function machine	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	representation - understand equality and inequality and use =, >, and < in number sentences	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense) representations - Identify and use appropriate symbols and notations in reading and writing open sentences, for example, $3 \cdot 6 = 18$	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	operations - evaluate simple expressions using blocks, sticks, beans, pictures, etc.	Word Problem Shape-Up Set 1, 2, 3
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	operations - solve simple equations using blocks, sticks, beans, pictures, etc.	Word Problem Shape-Up Set 1, 2, 3
Math	2 - The student uses mathematics to define and solve problems.	2.1 investigate situations	search for patterns in simple situations	Word Problem Shape-Up Set 1, 2, 3
Math	2 - The student uses mathematics to define and solve problems.	2.1 investigate situations	use a variety of strategies and approaches	Word Problem Shape-Up Set 1, 2, 3
Math	2 - The student uses mathematics to define and solve problems.	2.1 investigate situations	recognize when information is missing or extraneous	Word Problem Shape-Up Set 1, 2, 3
Math	2 - The student uses mathematics to define and solve problems.	2.1 investigate situations	recognize when an approach is unproductive and try a new approach	Word Problem Shape-Up Set 1, 2, 3
Math	2 - The student uses mathematics to define and solve problems.	2.2 formulate questions and define the problem	identify questions to be answered in familiar situations	Word Problem Shape-Up Set 1, 2, 3
Math	2 - The student uses mathematics to define and solve problems.	2.2 formulate questions and define the problem	define problems in familiar situations	Word Problem Shape-Up Set 1, 2, 3

Math	2 - The student uses mathematics to define and solve problems.	2.2 formulate questions and define the problem	identify the unknowns in familiar situations	Word Problem Shape-Up Set 1, 2, 3
Math	2 - The student uses mathematics to define and solve problems.	2.3 construct solutions	organize relevant information	Word Problem Shape-Up Set 1, 2, 3
Math	2 - The student uses mathematics to define and solve problems.	2.3 construct solutions	select and use appropriate mathematical tools	Word Problem Shape-Up Set 1, 2, 3
Math	2 - The student uses mathematics to define and solve problems.	2.3 construct solutions	apply viable strategies and appropriate concepts and procedures to construct a solution	Word Problem Shape-Up Set 1, 2, 3
Math	3 - The student uses mathematical reasoning.	3.1 analyze information	compare and interpret information in familiar situations	Word Problem Shape-Up Set 1, 2, 3
Math	3 - The student uses mathematical reasoning.	3.1 analyze information	validate thinking using models, known facts, patterns, and relationships	Word Problem Shape-Up Set 1, 2, 3
Math	3 - The student uses mathematical reasoning.	3.2 predict results	make conjectures based on analysis of familiar problem situations	Word Problem Shape-Up Set 1, 2, 3
Math	3 - The student uses mathematical reasoning.	3.3 draw conclusions and verify results	test conjectures by finding examples to support or contradict them	Word Problem Shape-Up Set 1, 2, 3
Math	3 - The student uses mathematical reasoning.	3.3 draw conclusions and verify results	support arguments and justify results	Word Problem Shape-Up Set 1, 2, 3
Math	3 - The student uses mathematical reasoning.	3.3 draw conclusions and verify results	check for reasonableness of results	Word Problem Shape-Up Set 1, 2, 3
Math	3 - The student uses mathematical reasoning.	3.3 draw conclusions and verify results	reflect on and evaluate procedures and results in familiar situations	Word Problem Shape-Up Set 1, 2, 3
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.1 gather information	develop and follow a simple plan for collecting information	Word Problem Shape-Up Set 1, 2, 3

Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.1 gather information	use reading, listening, and observation to access and extract mathematical information from a variety of sources such as pictures, diagrams, physical models, classmates, oral narratives, and symbolic representations	Word Problem Shape-Up Set 1, 2, 3
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.1 gather information	use available technology to browse and retrieve mathematical information from a variety of sources	Word Problem Shape-Up Set 1, 2, 3
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.2 organize and interpret information	organize and clarify mathematical information in at least one way - reflecting, verbalizing, discussing, or writing	Word Problem Shape-Up Set 1, 2, 3
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.3 represent and share information	express ideas using mathematical language and notation such as physical or pictorial models, tables, charts, graphs, or symbols	Word Problem Shape-Up Set 1, 2, 3
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.3 represent and share information	explain or represent mathematical ideas and information to familiar people for a given purpose	Word Problem Shape-Up Set 1, 2, 3
Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations.	5.1 relate concepts and procedures within mathematics	relate conceptual and procedural understandings among familiar mathematical content strands	Word Problem Shape-Up Set 1, 2, 3
Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations.	5.1 relate concepts and procedures within mathematics	recognize equivalent mathematical models and representations in familiar situations	Word Problem Shape-Up Set 1, 2, 3

Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations.	5.2 relate mathematical concepts and procedures to other disciplines	recognize mathematical patterns and ideas in familiar situations in other disciplines	Word Problem Shape-Up Set 1, 2, 3
Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations.	5.2 relate mathematical concepts and procedures to other disciplines	use mathematical thinking and modeling in familiar situations in other disciplines	Word Problem Shape-Up Set 1, 2, 3
Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations.	5.2 relate mathematical concepts and procedures to other disciplines	describe examples of contributions to the development of mathematics such as the contributions of women, men, and different cultures	Word Problem Shape-Up Set 1, 2, 3
Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations.	5.3 relate mathematical concepts and procedures to real-life situations	give examples of how mathematics is used in everyday life	Word Problem Shape-Up Set 1, 2, 3
Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations.	5.3 relate mathematical concepts and procedures to real-life situations	identify how mathematics is used in career settings	Word Problem Shape-Up Set 1, 2, 3

Grades 6-10

Subhead	EALR	Component	Benchmark	Merit Software
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Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.1 understand and apply concepts and procedures from number sense	number and numeration - demonstrate understanding of integers, fractions, decimals, percents, place value of decimals, and properties of the rational number system using pictures and symbols	Word Problem Shape-Up Set 1, 2, 3; Fraction Shape-Up
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.1 understand and apply concepts and procedures from number sense	number and numeration - compare and order integers, fractions, and decimals	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.1 understand and apply concepts and procedures from number sense	number and numeration - understand the concepts of prime and composite numbers, factors and multiples, and divisibility rules	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.1 understand and apply concepts and procedures from number sense	number and numeration - understand and apply the concepts of ratio and direct proportion	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.1 understand and apply concepts and procedures from number sense	computation - understand operations on non-negative rational numbers	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.1 understand and apply concepts and procedures from number sense	computation - add, subtract, multiply, and divide non-negative fractions and decimals using rules for order of operation	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.1 understand and apply concepts and procedures from number sense	computation - use mental arithmetic, pencil and paper, calculator, or computer as appropriate to the task involving non-negative rational numbers	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2

Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.1 understand and apply concepts and procedures from number sense	estimation - identify situations involving non-negative rational numbers in which estimation is sufficient and computation is not required	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.1 understand and apply concepts and procedures from number sense	estimation - use estimation to predict computation results and to determine the reasonableness of answers involving non-negative rational numbers, for example, estimating a tip	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	attributes and dimensions - understand the concepts of and the relationships among perimeter, area, and volume and how changes in one dimension affect perimeter, area, and/or volume	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	attributes and dimensions - measure objects and events directly or using indirect methods such calculating and applying procedures for determining perimeter, area, and volume	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	attributes and dimensions - understand the concept of rate and how to calculate rates and determine units	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	approximation and precision - understand that precision is related to the unit of measurement used and the calibration of the measurement tool	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2

Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	approximation and precision - know when to estimate and use estimation to obtain reasonable approximations, for example, estimating the length and width of the playground to approximate its area	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	systems and tools - understand the appropriate uses of standard units of measurement for both direct and indirect measurement	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	systems and tools - understand the relationship among units within both the U.S. and metric systems	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.2 understand and apply concepts and procedures from measurement	systems and tools - select and use tools that will provide an appropriate degree of precision, for example, using meters vs. kilometers	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	properties and relationships - use the properties and relationships of plane geometry to describe shapes and figures including angles, degrees in a circle, triangles, isosceles, equilateral, or quadrilateral	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	properties and relationships - identify, describe, or draw objects in the surrounding environment in geometric terms, for example, producing a simple scale drawing of a classroom	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2

Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	properties and relationships - understand symmetry, congruence, and similarity	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	properties and relationships - perform geometric constructions using a variety of tools and technologies, such as paper folding, computer software, straightedge, compass	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	locations and transformations - identify and describe location of objects on coordinate grids in any of the four quadrants	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.3 understand and apply concepts and procedures from geometric sense	locations and transformations - understand and apply simple geometric transformations using combinations of translations (slides), or reflections (flips), or rotations (turns)	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	probability - know how to calculate numerical measures of chance for simple events	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	probability - understand procedures for counting outcomes to determine probabilities	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics) probability - know how to conduct experiments and simulations and to compare results with mathematical expectations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2

Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	statistics - collect a random sample of data that represents a described population	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	statistics - organize and display data in appropriate forms such as frequency tables, circle graphs, and stem - and - leaf plots	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	statistics - calculate and appropriately use range and measures of central tendency to describe data	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	statistics - identify how statistics can be used to support different points of view	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	prediction and inference - predict outcomes of experiments and simulations and compare the predictions to experimental results	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.4 understand and apply concepts and procedures from probability and statistics	prediction and inference - understand and make inferences based on analysis of experimental results, statistical data, and simple graphical representations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	patterns - recognize, create, and extend patterns and sequences	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2

Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	patterns - represent and describe patterns with tables, graphs, and rules	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	representations - represent equalities and inequalities symbolically using =, >, <, <=, >=	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	representations - use variables to write simple expressions, equations, and inequalities, for example, $3x > 18$	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	operations - evaluate expressions and formulas	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	1 - The student understands and applies the concepts and procedures of mathematics.	1.5 understand and apply concepts and procedures from algebraic sense	operations - solve single-variable equations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	2 - The student uses mathematics to define and solve problems	2.1 investigate situations	search systematically for patterns in simple situations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	2 - The student uses mathematics to define and solve problems	2.1 investigate situations	develop and use a variety of strategies and approaches	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	2 - The student uses mathematics to define and solve problems	2.1 investigate situations	identify missing or extraneous information	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2

Math	2 - The student uses mathematics to define and solve problems	2.1 investigate situations	recognize the need to modify or abandon an unproductive approach	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	2 - The student uses mathematics to define and solve problems	2.2 formulate questions and define the problem	identify questions to be answered in new situations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	2 - The student uses mathematics to define and solve problems	2.2 formulate questions and define the problem	define problems in new situations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	2 - The student uses mathematics to define and solve problems	2.2 formulate questions and define the problem	identify the knowns and unknowns in new situations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	2 - The student uses mathematics to define and solve problems	2.3 construct solutions	organize relevant information from multiple sources	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	2 - The student uses mathematics to define and solve problems	2.3 construct solutions	select and use appropriate mathematical tools	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	2 - The student uses mathematics to define and solve problems	2.3 construct solutions	apply viable strategies and procedures to construct a solution	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	3 - The student uses mathematical reasoning.	3.1 analyze information	compare, contrast, and interpret information from a variety of sources	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	3 - The student uses mathematical reasoning.	3.1 analyze information	validate thinking and mathematical ideas using models, known facts, patterns, relationships, and counter-examples	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2

Math	3 - The student uses mathematical reasoning.	3.2 predict results	make conjectures based on analysis of new problem situations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	3 - The student uses mathematical reasoning.	3.3 draw conclusions and verify results	test conjectures and explain why they are true or false	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	3 - The student uses mathematical reasoning.	3.3 draw conclusions and verify results	support arguments and justify results using evidence	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	3 - The student uses mathematical reasoning.	3.3 draw conclusions and verify results	check for reasonableness of results	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	3 - The student uses mathematical reasoning.	3.3 draw conclusions and verify results	reflect on and evaluate procedures and results in new problem situations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.1 gather information	develop a plan for collecting information	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.1 gather information	use reading, listening, and observation to access and extract mathematical information from multiple sources such as pictures, diagrams, physical models, oral narratives, and symbolic representations	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.1 gather information	choose appropriate available technology to browse, select, and retrieve relevant mathematical information from a variety of sources	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2

Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.2 organize and interpret information	organize and clarify mathematical information by reflecting, verbalizing, discussing, or writing	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.3 represent and share information	clearly and effectively express or present ideas and situations using both everyday and mathematical language such as models, tables, charts, graphs, written reflection, or algebraic notation	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	4 - The student communicates knowledge and understanding in both everyday and mathematical language.	4.3 represent and share information	explain or represent mathematical ideas and information in ways appropriate for audience and purpose	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations	5.1 relate concepts and procedures within mathematics	relate and use conceptual and procedural understandings among a variety of mathematical content areas	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2

Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations	5.1 relate concepts and procedures within mathematics	relate and use different mathematical models and representations of the same situation	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations	5.2 relate mathematical concepts and procedures to other disciplines	identify mathematical patterns and ideas in other disciplines	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
Math	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations	5.2 relate mathematical concepts and procedures to other disciplines	use mathematical thinking and modeling in other disciplines	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2
	5 - The student understands how mathematical ideas connect within mathematics, to other subject areas, and to real-life situations	5.3 relate mathematical concepts and procedures to real-life situations	recognize the widespread use of mathematics in daily life and the extensive use of mathematics outside the classroom, for example, in banking or sports statistics	Word Problem Shape-Up Set 1, 2, 3; Pre-Algebra Shape-Up; Basic Algebra Shape-Up Set 1 & 2