

Florida
FCAT Standards
Mathematics - Grade 6
Correlations with Gourmet Curriculum Press, Inc.®
1.800.900.2290

Benchmark Number	Benchmark • Instructional Target	Gourmet Resource	Taught	Tested
	A: Number Sense, Concepts, and Operations			
	1. The student understands the different ways numbers are represented and used in the real world.			
MA.A.1.3.1	<ul style="list-style-type: none"> • <i>associates verbal names, written word names, and standard numerals with integers, fractions, decimals; numbers expressed as percents; numbers with exponents; numbers in scientific notation; radicals, absolute value; and ratios.</i> 	Appetizers 1 A, C, E, & F; Main Dish Objective 1 (Number Concepts) Lessons 1, 3, 5, & 6; Applications; Final Test; Reasonableness Problems; Journal Topics		*
MA.A.1.3.2	<ul style="list-style-type: none"> • <i>understands the relative size of integers, fractions, and decimals, numbers expressed as percents; numbers with exponents; numbers in scientific notation; radicals; absolute value; and ratios.</i> 	Appetizers 1 A, C, D, E, & F; Main Dish Objective 1 (Number Concepts) Lessons 1, 3, 4, 5, & 6; Applications; Final Test; Reasonableness Problems; Journal Topics		MC
MA.A.1.3.3	<ul style="list-style-type: none"> • <i>understands concrete and symbolic representations of rational numbers and irrational numbers in real-world situations.</i> 	Appetizers 1 A, B, C, & D; Main Dish Objective 1 (Number Concepts) Lessons 1, 2, 3, & 4; Applications; Final Test; Reasonableness Problems; Journal Topics		*
MA.A.1.3.4	<ul style="list-style-type: none"> • <i>understands that numbers can be represented in a variety of equivalent forms, including integers, fractions, decimals, percents, scientific notation, exponents, radicals, and absolute value (Also assesses A.1.3.1 and A.1.3.3)</i> 	Appetizers 1 C, D, E, & F; 2 C; 8 C; Main Dish Objectives 1 (Number Concepts) Lessons 3, 4, 5, & 6; 2 (Mathematical Relations) Lesson 3; 8 (Multiplication) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		GR;MC

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	2. The student understands number systems.			
MA.A.2.3.1	• <i>understands and uses exponential and scientific notation.</i>	Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Application; Final Test; Reasonableness Problems; Journal Topics		GR; MC
MA.A.2.3.2	• <i>understands the structure of number systems other than the decimal number system.</i>			•
	3. The student understands the effects of operations on numbers and the relationships among these operations, selects appropriate operations, and computes for problem solving.			
MA.A.3.3.1	• <i>understands and explains the effects of addition, subtraction, multiplication, and division on whole numbers and fractions, including mixed numbers and decimals, including the inverse relationships of positive and negative numbers.</i>	Appetizers 2 A; 6 A, B, & C; 7 A, B, & C; 8 A, B, & D; 9 A, B, C, D, E, & F; Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 6 (Addition) Lessons 1, 2, & 3; 7 (Subtraction) Lessons 1, 2, & 3; 8 (Multiplication) Lessons 1, 2, & 4; 9 (Division) Lessons 1, 2, 3, 4, 5, & 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC
MA.A.3.3.2	• <i>selects the appropriate operation to solve problems involving addition, subtraction, multiplication, and division of rational numbers, ratios, proportions, and percents, including the appropriate application of the algebraic order of operations.</i>	Appetizers 6 A, B, C, & D; 7 A, B, & C; 8 A, B, C, & D; 9 A, B, C, D, E, F, & G; 11 A; 12 A & B; 13 B; Main Dish Objectives 6 (Addition) Lessons 1, 2, 3, & 4; 7 (Subtraction) Lessons 1, 2, & 3; 8 (Multiplication) Lessons 1, 2, 3, & 4; 9 (Division) Lessons 1, 2, 3, 4, 5, 6, & 7; 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lessons 1 & 2; 13 (Reasonableness) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		GR; MC

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MA.A.3.3.3	<ul style="list-style-type: none"> adds, subtracts, multiplies, and divides whole numbers, decimals, and fractions, including mixed numbers, to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator. 	Appetizers 6 A, B, C, & D; 7 A, B, & C; 8 A, B, & D; 9 A, B, C, D, E, F, & G; 11 A; 12 A; 13 B; Main Dish Objectives 6 (Addition) Lessons 1, 2, 3, & 4; 7 (Subtraction) Lessons 1, 2, & 3; 8 (Multiplication) Lessons 1, 2, & 4; 9 (Division) Lessons 1, 2, 3, 4, 5, 6, & 7; 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1; 13 (Reasonableness) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		GR; MC
4. The student uses estimation in problem solving and computation.				
MA.A.4.3.1	<ul style="list-style-type: none"> uses estimation strategies to predict results and to check the reasonableness of results. (Also assesses A.4.2.1, B.2.3.1, and B.3.3.1) 	Appetizers 10 A, B, C, D, E, F, & G; Main Dish Objective 10 (Estimation) Lessons 1, 2, 3, 4, 5, 6, & 7; Applications; Final Test; Reasonableness Problems; Journal Topics		MC
MA.A.5.3.1	<ul style="list-style-type: none"> uses concepts about numbers, including primes, factors, and multiples, to build member sequences. 	Appetizers 1 D, E, & F; 8 C; Main Dish Objectives 1 (Number Concepts) Lessons 4, 5, & 6; 8 (Multiplication) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		*
B: Measurement				
1. The student measures quantities in the real world and uses the measures to solve problems.				
MA.B.1.3.1	<ul style="list-style-type: none"> uses concrete and graphic models to derive formulas for finding perimeter, area, surface area, circumference, and volume of two- and three-dimensional shapes, including rectangular solids and cylinders. (Also assesses B.1.2.2 and B.2.3.1) 	Appetizers 4 D & E; 11 B; Main Dish Objectives 4 (Measurement) Lessons 4 & 5; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		GR; MC

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MA.B.1.3.2	• <i>uses concrete and graphic models to derive formulas for finding rates, distance, time, and angle measures. (Also assesses B.1.2.2 and B.2.3.1)</i>	Appetizers 2 B; 3 D; 4 A; 12 C; Main Dish Objectives 2 (Mathematical Relations) Lesson 2; 3 (Geometry) Lesson 4; 4 (Measurement) Lesson 1; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		GR; MC
MA.B.1.3.3	• <i>understands and describes how the change of a figure in such dimensions as length, width, height, or radius affects its other measurements such as perimeter, area, surface area, and volume. (Also assesses C.2.3.1)</i>	Appetizers 4 D & E; 11 B; Main Dish Objectives 4 (Measurement) Lessons 4 & 5; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		GR; MC
MA.B.1.3.4	• <i>constructs, interprets, and uses scale drawings such as those based on number lines and maps to solve real-world problems. (Also assesses B.2.3.1)</i>			GR; MC
2. The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary).				
MA.B.2.3.1	• <i>uses direct (measured) and indirect (not measured) measures to compare a given characteristic in either metric or customary units.</i>	Appetizers 4 B & C; Main Dish Objective 4 (Measurement) Lessons 2 & 3; Applications; Final Test; Reasonableness Problems; Journal Topics		*
MA.B.2.3.2	• <i>solves problems involving units of measure and converts answers to a larger or smaller unit within either the metric or customary system.</i>	Appetizers 4 A, B, & C; Main Dish Objective 4 (Measurement) Lessons 1, 2, & 3; Applications; Final Test; Reasonableness Problems; Journal Topics		GR; MC
3. The student estimates measurements in real-world problem situations.				
MA.B.3.3.1	• <i>solves real-world and mathematical problems involving estimates of measurements including length, time, weight/mass, temperature, money, perimeter, area, and volume, in either customary or metric units.</i>	Appetizers 4 A, B, C, D, & E; Main Dish Objective 4 (Measurement) Lessons 1, 2, 3, 4, & 5; Applications; Final Test; Reasonableness Problems; Journal Topics		*

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	4. The student selects and uses appropriate units and instruments for measurement to achieve the degree of precision and accuracy required in real-world situations.			
MA.B.4.3.1	• <i>selects appropriate units of measurement and determines and applies significant digits in a real-world context. (Significant digits should relate to both instrument precision and to the least precise unit of measurement.)</i>	Appetizers 4 A, B, & C; Main Dish Objective 4 (Measurement) Lessons 1, 2, & 3; Applications; Final Test; Reasonableness Problems; Journal Topics		•
MA.B.4.3.2	• <i>selects and uses appropriate instruments, technology, and techniques to measure quantities in order to achieve specified degrees of accuracy in a problem situation.</i>	Appetizers 3 D; 4 A, B, & C; Main Dish Objectives 3 (Geometry) Lesson 4; 4 (Measurement) Lessons 1, 2, & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		•
C: Geometry and Spatial Sense				
	1. The student describes, draws, identifies, and analyzes two- and three-dimensional shapes.			
MA.C.1.3.1	• <i>understands the basic properties of, and relationships pertaining to, regular and irregular geometric shapes in two and three dimensions. (Also assesses C.1.2.1)</i>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		GR;MC
	2. The student visualizes and illustrates ways in which shapes can be combined, subdivided, and changed.			
MA.C.2.3.1	• <i>understand the geometric concepts of symmetry, reflections, congruency, similarity, perpendicularity, parallelism, and transformations, including flips, slides, turns, and enlargements. (Also assesses B.1.3.3, C.1.2.1, C.1.3.1, and C.3.3.1)</i>	Appetizers 3 B & C; 11 C; Main Dish Objectives 3 (Geometry) Lessons 2 & 3; 11 (Problem Solving) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC
MA.C.2.3.2	• <i>predicts and verifies patterns involving tessellations (a covering of a plane with congruent copies of the same patterns with no holes and no overlaps, like floor tiles).</i>			•

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	3. The student uses coordinate geometry to locate objects in both two and three dimensions and to describe objects algebraically.			
MA.C.3.3.1	• <i>represents and applies geometric properties and relationships to solve real-world and mathematical problems. (Also assesses C.2.3.1)</i>	Appetizers 3 A, B, & C; 11 B; Main Dish Objectives 3 (Geometry) Lessons 1, 2, & 3; 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC
MA.C.3.3.2	• <i>identifies and plots ordered pairs in all four quadrants of a rectangular coordinate system (graph) and applies simple properties of lines.</i>	Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		MC
D: Algebraic Thinking				
	1. The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions.			
MA.D.1.3.1	• <i>describes a wide variety of patterns, relationships, and functions through models, such as manipulatives, tables, graphs, expressions, equations, and inequalities. (Also assesses A.5.3.1)</i>	Appetizers 2 B & D; Main Dish Objective 2 (Mathematical Relations) Lessons 2 & 4; Applications; Final Test; Reasonableness Problems; Journal Topics		GR; MC
MA.D.1.3.2	• <i>creates and interprets tables, graphs, equations, and verbal descriptions to explain cause-and-effect relationships. (Also assesses A.5.3.1)</i>	Appetizers 5 B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		GR; MC
	2. The student uses expressions, equations, inequalities, graphs, and formulas to represent and interpret situations.			
MA.D.2.3.1	• <i>represents and solves real-world problems graphically, with algebraic expressions, equations, and inequalities. (Also assesses A.1.3.3)</i>	Appetizers 2 D; 12 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 4; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC

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MA.D.2.3.2	<ul style="list-style-type: none"> uses algebraic problem-solving strategies to solve real-world problems involving linear equations and inequalities. 	Appetizers 2 D; 12 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 4; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		GR; MC
E: Data Analysis and Probability				
1. The student understands and uses the tools of data analysis for managing information.				
MA.E.1.3.1	<ul style="list-style-type: none"> collects, organizes, and displays data in a variety of forms, including tables, line graphs, charts, and bar graphs, to determine how different ways of presenting data can lead to different interpretations. (Also assesses E.1.3.3) 	Appetizers 5 B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		GR; MC
MA.E.1.3.2	<ul style="list-style-type: none"> understands and applies the concepts of range and central tendency (mean, median, and mode). (Also assesses E.1.3.3) 	Appetizers 5 E; Main Dish Objective 5 (Probability/Statistics) Lesson 5; Application; Final Test; Reasonableness Problems; Journal Topics		GR; MC
MA.E.1.3.3	<ul style="list-style-type: none"> analyzes real-world data by applying appropriate formulas for measures of central tendency and organizing data in a quality display, using appropriate technology, including calculators and computers. 	Appetizers 5 E; Main Dish Objective 5 (Probability/Statistics) Lesson 5; Application; Final Test; Reasonableness Problems; Journal Topics		*
2. The student identifies patterns and makes predictions from an orderly display of data using concepts of probability and statistics.				
MA.E.2.3.1	<ul style="list-style-type: none"> compares experimental results with mathematical expectations of probabilities. 	Appetizers 5 A & C; Main Dish Objective 5 (Probability/Statistics) Lessons 1 & 3; Applications; Final Test; Reasonableness Problems; Journal Topics		MC

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MA.E.2.3.2	<ul style="list-style-type: none"> determines odds for and odds against a given situation. (Also assesses E.2.2.2) 	Appetizers 5 D; Main Dish Objective 5 (Probability/Statistics) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		MC
	3. The student uses statistical methods to make inferences and valid arguments about real-world situations.			
MA.E.3.3.1	<ul style="list-style-type: none"> formulates hypotheses, designs experiments, collects and interprets data, and evaluates hypotheses by making inferences and drawing conclusions based on statistics (range, mean, median, and mode) and tables, graphs, and charts. (Also assesses E.3.3.2) 	Appetizers 5 A & E; Main Dish Objective 5 (Probability/Statistics) Lessons 1 & 5; Applications; Final Test; Reasonableness Problems; Journal Topics		MC
MA.E.3.3.2	<ul style="list-style-type: none"> identifies the common uses and misuses of probability and statistical analysis in the everyday world. 	Appetizers 11 D; Main Dish Objective 11 (Problem Solving) Lesson 4; Applications; Final Test; Reasonableness Problems; Journal Topics		*

MC = Multiple Choice

GR = Gridded Response

SR = Short Response

ER = Extended Response

* = Assessed with Another Benchmark

• = Not Assessed