

**Florida  
FCAT Standards  
Mathematics - Grade 4  
Correlations with Gourmet Curriculum Press, Inc.®  
1.800.900.2290**

<b>Benchmark Number</b>	<b>Benchmark • Instructional Target</b>	<b>Gourmet Resource</b>	<b>Taught</b>	<b>Tested</b>
	<b>A: Number Sense, Concepts, and Operations</b>			
	<b>1. The student understands the different ways numbers are represented and used in the real world.</b>			
<b>MA.A.1.2.1</b>	<ul style="list-style-type: none"> <li>names whole numbers combining 3-digit numeration (hundreds, tens, ones) and the use of number periods, such as ones, thousands, and millions and associates verbal names, written word names, and standard numerals with whole numbers, commonly used fractions, decimals, and percents. (Assessed with A.1.2.4)</li> </ul>	Appetizers 1 A, C, E, & G; Main Dish Objective 1 (Number Concepts) Lessons 1, 3, 5, & 7; Applications; Final Test; Reasonableness Problems; Journal Topics		*
<b>MA.A.1.2.2</b>	<ul style="list-style-type: none"> <li>understands the relative size of whole numbers, commonly used fractions, decimals, and percents.</li> </ul>	Appetizers 1 B, E, & G; Main Dish Objective 1 (Number Concepts) Lessons 2, 5, & 7; Applications; Final Test; Reasonableness Problems; Journal Topics		MC
<b>MA.A.1.2.3</b>	<ul style="list-style-type: none"> <li>understands concrete and symbolic representations of whole numbers, fractions, decimals, and percents in real-world situations. (Assessed with A.1.2.4)</li> </ul>	Appetizers 1 A, C, E, & G; Main Dish Objective 1 (Number Concepts) Lessons 1, 3, 5, & 7; Applications; Final Test; Reasonableness Problems; Journal Topics		*
<b>MA.A.1.2.4</b>	<ul style="list-style-type: none"> <li>understands that numbers can be represented in a variety of equivalent forms using whole numbers, decimals, fractions, and percents. (Also assesses A.1.2.1 and A.1.2.3)</li> </ul>	Appetizers 1 B, E, & G; Main Dish Objective 1 (Number Concepts) Lessons 2, 5, & 7; Applications; Final Test; Reasonableness Problems; Journal Topics		MC

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	<b>2. The student understands number systems.</b>			
<b>MA.A.2.2.1</b>	<ul style="list-style-type: none"> <li>uses place-value concepts of grouping based upon powers of ten (thousandths, hundredths, tenths, ones, tens, hundreds, thousands) within the decimal number system.</li> </ul>	Appetizers 1 C & E; Main Dish Objective 1 (Number Concepts) Lessons 3 & 5; Applications; Final Test; Reasonableness Problems; Journal Topics		MC
<b>MA.A.2.2.2</b>	<ul style="list-style-type: none"> <li>recognizes and compares the decimal number system to the structure of other number systems such as the Roman numeral system or bases other than ten.</li> </ul>			•
	<b>3. The student understands the effects of operations on numbers and the relationships among these operations, selects appropriate operations, and computes for problem solving.</b>			
<b>MA.A.3.2.1</b>	<ul style="list-style-type: none"> <li>understands and explains the effects of addition, subtraction, and multiplication on whole numbers, decimals, and fractions, including mixed numbers, and the effects of division on whole numbers, including the inverse relationships of multiplication and division.</li> </ul>	Appetizers 2 A; 6 C; 7 C; 9 D; Main Dish Objectives 2 (Mathematical Relations) Lesson 1; 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; 9 (Division) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC
<b>MA.A.3.2.2</b>	<ul style="list-style-type: none"> <li>selects the appropriate operation to solve specific problems involving addition, subtraction, and multiplication of whole numbers, decimals, and fractions, and division of whole numbers.</li> </ul>	Appetizers 11 A & B; 12 A; Main Dish Objectives 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC
<b>MA.A.3.2.3</b>	<ul style="list-style-type: none"> <li>adds, subtracts, and multiplies whole numbers, decimals, and fractions, including mixed numbers, and divides whole numbers to solve real-world problems, using appropriate methods of computing, such as mental mathematics, paper and pencil, and calculator.</li> </ul>	Appetizers 6 A, B, C, & D; 7 A, B, & C; 8 A & B; 9 A, B, C, & D; Main Dish Objectives 6 (Addition) Lessons 1, 2, 3, & 4; 7 (Subtraction) Lessons 1, 2, & 3; 8 (Multiplication) Lessons 1 & 2; 9 (Division) Lessons 1, 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC

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	<b>4. The student uses estimation in problem solving and computation.</b>			
<b>MA.A.4.2.1</b>	• <i>uses and justifies different estimation strategies in a real-world problem situation and determines the reasonableness of results of calculations in a given problem situation. (Also assesses B.3.2.1)</i>	<b>Appetizers 10 A, B, C, D, &amp; E; Main Dish Objective 10 (Estimation) Lessons 1, 2, 3, 4, &amp; 5; Applications; Final Test; Reasonableness Problems; Journal Topics</b>		<b>MC</b>
<b>MA.A.5.2.1</b>	• <i>understands and applies basic number theory concepts, including primes, composites, factors, and multiples.</i>	<b>Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics</b>		<b>MC</b>
	<b>B: Measurement</b>			
	<b>1. The student measures quantities in the real world and uses the measures to solve problems.</b>			
<b>MA.B.1.2.1</b>	• <i>uses concrete and graphic models to develop procedures for solving problems related to measurement including length, weight, time, temperature, perimeter, area, volume, and angle.</i>	<b>Appetizers 3 D; 4 A, B, C, F, G, &amp; H; Main Dish Objectives 3 (Geometry) Lesson 4; 4 (Measurement) Lessons 1, 2, 3, 6, 7, &amp; 8; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		•
<b>MA.B.1.2.2</b>	• <i>solves real-world problems involving length, weight, perimeter, area, capacity, volume, time, temperature, and angles.</i>	<b>Appetizers 4 A, B, D, F, G, &amp; H; Main Dish Objective 4 (Measurement) Lessons 1, 2, 4, 6, 7, &amp; 8; Applications; Final Test; Reasonableness Problems; Journal Topics</b>		<b>MC</b>
	<b>2. The student compares, contrasts, and converts within systems of measurement (both standard/nonstandard and metric/customary).</b>			
<b>MA.B.2.2.1</b>	• <i>uses direct (measured) and indirect (not measured) measures to calculate and compare measurable characteristics.</i>	<b>Main Dish Objective 4 (Measurement); Reasonableness Problems; Journal Topics</b>		<b>MC</b>
<b>MA.B.2.2.2</b>	• <i>selects and uses appropriate standard and nonstandard units of measurement, according to type and size. (Also assesses B.4.2.1)</i>	<b>Main Dish Objective 4 (Measurement); Reasonableness Problems; Journal Topics</b>		<b>MC</b>

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	<b>3. The student estimates measurements in real-world problem situations.</b>			
<b>MA.B.3.2.1</b>	<ul style="list-style-type: none"> <li><i>solves real-world problems involving estimates of measurements, including length, time, weight, temperature, money, perimeter, area, and volume. (Assessed with A.4.2.1)</i></li> </ul>	<b>Appetizers 10 A; 13 A; Main Dish Objectives 4 (Measurement) Lesson 6; 10 (Estimation) Lesson 1; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		*
	<b>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.</b>			
<b>MA.B.4.2.1</b>	<ul style="list-style-type: none"> <li><i>determines which units of measurement, such as seconds, square inches, and dollars per tankful, to use with answers to real-world problems. (Assessed with B.2.2.2)</i></li> </ul>	<b>Appetizers 4 A, B, C, D, E, &amp; F; 13 A &amp; B; Main Dish Objectives 4 (Measurement) Lessons 1, 2, 3, 4, 5, &amp; 6; 13 (Reasonableness) Lessons 1 &amp; 2; Applications; Final Test; Reasonableness Problems; Journal Topics</b>		*
<b>MA.B.4.2.2</b>	<ul style="list-style-type: none"> <li><i>selects and uses appropriate instruments and technology, including scales, rulers, thermometers, measuring cups, protractors, and gauges, to measure in real-world situations.</i></li> </ul>	<b>Appetizers 4 C, D, E, &amp; F; Main Dish Objective 4 (Measurement) Lessons 3, 4, 5, &amp; 6; Applications; Final Test; Reasonableness Problems; Journal Topics</b>		MC
<b>C: Geometry and Spatial Sense</b>				
	<b>1. The student describes, draws, identifies, and analyzes two- and three-dimensional shapes.</b>			
<b>MA.C.1.2.1</b>	<ul style="list-style-type: none"> <li><i>given a verbal description, draws and/or models two- and three-dimensional shapes, and uses appropriate geometric vocabulary to write a description of a figure or a picture composed of geometric figures.</i></li> </ul>	<b>Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics</b>		MC
	<b>2. The student visualizes and illustrates ways in which shapes can be combined, subdivided, and changed.</b>			
<b>MA.C.2.2.1</b>	<ul style="list-style-type: none"> <li><i>understands the concepts of spatial relationships, symmetry, reflections, congruency, and similarity. (Also assesses B.1.2.2, C.1.2.1, and C.3.2.1)</i></li> </ul>	<b>Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics</b>		MC

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MA.C.2.2.2	<ul style="list-style-type: none"> <li>predicts, illustrates, and verifies which figures could result from a flip, slide, or turn of a given figure.</li> </ul>	Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		MC
	<b>3. The student uses coordinate geometry to locate objects in both two and three dimensions and to describe objects algebraically.</b>			
MA.C.3.2.1	<ul style="list-style-type: none"> <li>represents and applies a variety of strategies and geometric properties and formulas for two- and three-dimensional shapes to solve real-world and mathematical problems. (Also assesses C.2.2.1)</li> </ul>	Appetizers 3 A & B; Main Dish Objective 3 (Geometry) Lessons 1 & 2; Applications; Final Test; Reasonableness Problems; Journal Topics		MC
MA.C.3.2.2	<ul style="list-style-type: none"> <li>identifies and plots positive ordered pairs (whole numbers) in a rectangular coordinate system (graph).</li> </ul>	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		MC
	<b>D: Algebraic Thinking</b>			
	<b>1. The student describes, analyzes, and generalizes a wide variety of patterns, relations, and functions.</b>			
MA.D.1.2.1	<ul style="list-style-type: none"> <li>describes a wide variety of patterns and relationships through models, such as manipulatives, tables, graphs, and rules using algebraic symbols. (Also assesses D.1.2.2)</li> </ul>	Appetizers 2 B; 5 A; 12 B; Main Dish Objectives 2 (Mathematical Relations) Lesson 2; 5 (Probability/Statistics) Lesson 1; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC
MA.D.1.2.2	<ul style="list-style-type: none"> <li>generalizes a pattern, relation, or function to explain how a change in one quantity results in a change in another. (Also assesses D.1.2.1)</li> </ul>	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics		•

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	<b>2. The student uses expressions, equations, inequalities, graphs, and formulas to represent and interpret situations.</b>			
<b>MA.D.2.2.1</b>	• <i>represents a given simple problem situations using diagrams, models, and symbolic expressions translated from verbal phrases, or verbal phrases translated from symbolic expressions, etc. (Also assesses D.2.2.2)</i>	All Main Dish Objectives - Journal Topics		MC
<b>MA.D.2.2.2</b>	• <i>uses informal methods, such as physical models and graphs, to solve real-world problems involving equations and inequalities. (Also assesses D.2.2.1)</i>	Appetizers 5 A; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC
<b>E: Data Analysis and Probability</b>				
	<b>1. The student understands and uses the tools of data analysis for managing information.</b>			
<b>MA.E.1.2.1</b>	• <i>solves problems by generating, collecting, organizing, displaying, and analyzing data using histograms, bar graphs, circle graphs, line graphs, pictographs, and charts. (Also assesses E.1.2.3)</i>	Appetizers 5 C; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lesson 3; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		MC
<b>MA.E.1.2.2</b>	• <i>determines range, mean, median, and mode from sets of data. (Also assesses E.1.2.3)</i>	Appetizers 13 C; Main Dish Objective 13 (Reasonableness) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		MC
<b>MA.E.1.2.3</b>	• <i>analyzes real-world data to recognize patterns and relationships of the measures of central tendency using tables, charts, histograms, bar graphs, line graphs, pictographs, and circle graphs generated by appropriate technology, including calculators and computers. (Assessed with E.1.2.1 &amp; E.1.2.2)</i>	Appetizers 5 C; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lesson 3; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		*

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	<b>2. The student identifies patterns and makes predictions from an orderly display of data using concepts of probability and statistics.</b>			
<b>MA.E.2.2.1</b>	• <i>uses models, such as tree diagrams, to display possible outcomes and to predict events.</i>	<b>Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics</b>		<b>MC</b>
<b>MA.E.2.2.2</b>	• <i>predicts the likelihood of simple events occurring.</i>	<b>Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics</b>		<b>MC</b>
	<b>3. The student uses statistical methods to make inferences and valid arguments about real-world situations.</b>			
<b>MA.E.3.2.1</b>	• <i>designs experiments to answer class or personal questions, collects information, and interprets the results using statistics (range, mean, median, and mode) and pictographs, charts, bar graphs, circle graphs, and line graphs. (Also assesses E.3.2.2)</i>	<b>Main Dish Objectives 3 (Geometry); 5 (Probability/Statistics); Journal Topics</b>		•
<b>MA.E.3.2.2</b>	• <i>uses statistical data about life situations to make predictions, and justifies reasoning. (Assessed with E.3.2.1)</i>	<b>Appetizers 5 A &amp; B; 13 A; Main Dish Objectives 5 (Probability/Statistics) Lessons 1 &amp; 2; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		*

MC = Multiple Choice

GR = Gridded Response

SR = Short Response

ER = Extended Response

\* = Assessed with Another Benchmark

• = Not Assessed