

**North Carolina
Curricular Standards
Mathematics - Grade 6
Correlations with Gourmet Curriculum Press, Inc.®
1.800.900.2290**

Number Sense, Numeration, and Numerical Operations				
Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
	Goal 1: The learner will understand and compute with rational numbers.			
1.1	<i>Read, write and make models of numbers including percents and exponentials.</i>	Appetizers 1 A, D, & E; 8 C; Main Dish Objectives 1 (Number Concepts) Lessons 1,4, & 5 ; 8 (Multiplication) Lesson 3		
1.2	<i>Relate functions, decimals, and percents.</i>	Appetizers 1 E, 2 C & E; Main Dish Objectives 1 (Number Concepts) Lesson 5; 2 (Mathematical Relations) Lessons 3 & 5		
1.3	<i>Compare and order fractions, decimals, and percents.</i>	Appetizers 1 A & E; Main Dish Objective 1 (Number Concepts) Lessons 1 & 5		
1.4	<i>Multiply and divide fractions, mixed numbers, and decimals using models and pictures; record solution.</i>	Appetizers 8 D; 9 E; Main Dish Objective 8 (Multiplication) Lesson 4; 9 (Division) Lesson 5		
1.5	<i>Multiply and divide fractions, mixed numbers, and decimals.</i>	Appetizers 8 D; 9 E & F; Main Dish Objective 8 (Multiplication) Lesson 4; 9 (Division) Lessons 5 & 6		
1.6	<i>Add and subtract fractions and mixed numbers with unlike denominators.</i>	Appetizers 6 C; 7 B; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 2		
1.7	<i>Use estimation and mental math to solve problems with fractions, decimals, and percents; explain solution.</i>	Appetizers 1 B; 7 D; Main Dish Objectives 1 (Number Concepts) Lesson 2; 7 (Subtraction) Lesson 4; 10 (Estimation) Enrichments 1 & 2		
1.8	<i>Solve problems using prime factorization, common factors and common multiples. Explain solutions.</i>	Appetizers 1 D & E; Main Dish Objective 1 (Number Concepts) Lessons 4 & 5		

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1.9	<i>Use models and pictures to relate concepts of ratio, proportion, and percent; record results.</i>	Appetizers 1 E; 2 C; Main Dish Objective 1 (Number Concepts) Lesson 5; 2 (Mathematical Relations) Lesson 3		
1.10	<i>Use models and pictures to demonstrate understanding of integers. Record results.</i>	Appetizers 2 E & F; Main Dish Objective 2 (Mathematical Relations) Lessons 5 & 6		
1.11	<i>Use the order of operations to simplify numerical expressions with parentheses and exponents.</i>	Appetizers 2 A; 11 A; 12 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1		
1.12	<i>Use the order of operations to simplify numerical expressions with parentheses and exponents.</i>	Appetizers 2 A; 11 A; 12 A; Main Dish Objective 2 (Mathematical Relations) Lesson 1; 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1		
1.13	<i>Translate word problems into number sentences and solve. Explain solutions.</i>	Appetizers 11 A & B; 12 A & B; Main Dish Objectives 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Representation) Lessons 1 & 2		
1.14	<i>Analyze problem situations, determine if there is sufficient information to solve the problem, identify missing or extraneous data, select appropriate strategies, and use an organized approach to solve multi-step problems; use calculators when appropriate.</i>	Appetizers 11 A; 12 A; 13 A, B, & C; Main Dish Objectives 11 (Problem Solving) Lesson 1; 12 (Mathematical Representation) Lesson 1; 13 (Reasonableness) Lessons 1, 2, & 3		

Spatial Sense, Measurement, and Geometry

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
	Goal 2: The learner will demonstrate an understanding and use of the properties and relationships in geometry, and standard units of metric and customary measurement.			
2.1	Construct congruent segments, congruent angles, bisectors of line segments bisectors of angles.	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4		
2.2	Define and identify interior, exterior, complementary, and supplementary angles and pairs of lines including skew lines.			
2.3	Define and identify alternate interior, alternate exterior, corresponding and vertical angles.			
2.4	Identify and distinguish among similar, congruent and symmetric figures; name corresponding parts.	Appetizers 3 C; 11 C; Main Dish Objectives 3 (Geometry) Lesson 3; 11 (Problem Solving) Lesson 3		
2.5	Locate, give the coordinates of, and graph place figures which are the results of translations or reflections in the first quadrant.	Appetizers 3 B; Main Dish Objectives 3 (Geometry) Lesson 2		
2.6	Investigate and determine the relationship between the diameter and circumference of a circle and the value of pi; calculate the circumference of a circle.	Appetizers 4 D; 11 B; Main Dish Objectives 4 (Measurement) Lesson 4; 11 (Problem Solving) Lesson 2		
2.7	Identify the relationship between areas of triangles and rectangles with the same base and height.	Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5		
2.8	Use models to develop formulas for finding areas of triangles, parallelograms and circles.	Appetizers 3 D; 4 D & E; 11 B Main Dish Objectives 3 (Geometry) Lesson 4; 4 (Measurement) Lessons 4 & 5; 11 (Problem Solving) Lesson 2		

Spatial Sense, Measurement, and Geometry

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
2.9	<i>Calculate areas of triangles, parallelograms and circles.</i>	Appetizers 4 D & E; 11 B; Main Dish Objectives 4 (Measurement) Lesson 4 & 5; 11 (Problem Solving) Lesson 2		
2.10	<i>Model the concept of volume for rectangular solids as the product of the area of the base and the height.</i>	Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5		
2.11	<i>Convert measures of length, area, capacity, weight, and time expressed in a given unit to other units in the same measurement system.</i>	Appetizers 4 A, B, C, & D; 11 A & B; Main Dish Objectives 4 (Measurement) Lessons 1, 2, 3, & 4; 11 (Problem Solving) Lessons 1 & 2		
2.12	<i>Estimate solutions to problems involving geometry and measurement. Determine when estimates are sufficient for the measurement situation.</i>	Appetizers 10 A & F; Main Dish Objective 10 (Estimation) Lessons 1 & 6		
2.13	<i>Analyze problem situations, select appropriate strategies, and use an organized approach to solve non-routine and increasingly complex problems involving geometry and measurement. Use technology as appropriate.</i>	Appetizers 4 D & E; 11 B & C; Main Dish Objectives 4 (Measurement) Lessons 4 & 5; 11 (Problem Solving) Lessons 2 and 3		

Patterns, Relationships, and Functions

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
	Goal 3: The learner will demonstrate an understanding of patterns, relationships, and elementary algebraic representation.			
3.1	<i>Describe, extend and write rules for a variety of patterns.</i>	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2		
3.2	<i>Generate a set of ordered pairs using a given rule which is stated verbally or algebraically.</i>			
3.3	<i>Given a group of ordered pairs, identify either verbally or algebraically the rule used to generate them and record results.</i>			
3.4	<i>Use variables to describe numerical expressions and relationships.</i>	Appetizers 2 D; 12 B Main Dish Objectives 2 (Mathematical Relations) Lesson 4; 12 (Mathematical Representation) Lesson 2		
3.5	<i>Use graphs and tables to represent ordered pairs; describe the relationship; recognize both linear and nonlinear relationships.</i>	Appetizers 2 B & C; Main Dish Objective 2 (Mathematical Relations) Lessons 2 & 3		
3.6	<i>Identify and use patterning as a strategy to solve problems.</i>	Appetizers 2 B, D, & E; 12 C; Main Dish Objectives 2 (Mathematical Relations) Lessons 2, 4, & 5; 12 (Mathematical Representation) Lesson 3		

Data, Probability, and Statistics

Benchmark Number	Benchmark • Teaching Targets	Gourmet Resource	Tested	Taught
	Goal 4: The learner will demonstrate an understanding and use of graphing, probability, and data analysis.			
4.1	<i>Create and evaluate graphic representations of data.</i>	Appetizers 5 B & C; Main Dish Objective 5 (Probability/Statistics) Lessons 2 & 3		
4.2	<i>Analyze data using spreadsheets.</i>			
4.3	<i>Locate points in all quadrants of the coordinate plane using ordered pairs.</i>	Appetizers 2 E; Main Dish Objective 2 (Mathematical Relations) Lesson 5		
4.4	<i>Use measures of central tendency to compare two sets of data.</i>	Appetizers 5 E; Main Dish Objective 5 (Probability/Statistics) Lesson 5		
4.5	<i>Construct convincing arguments based on analysis of data and interpretation of graphs.</i>	Appetizers 5 B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 3		
4.6	<i>Design an experiment to test a theoretical probability; record and explain results.</i>	Appetizers 5 A, C, & D; Main Dish Objective 5 (Probability/Statistics) Lessons 1, 3, & 4		
4.7	<i>Make predictions based on the probabilities of simple events.</i>	Appetizers 5 A; 11 D; Main Dish Objectives 5 (Probability/Statistics) Lesson 1; 11 (Problem Solving) Lesson 4		
4.8	<i>Use inductive and deductive reasoning to solve problems.</i>	Appetizers 11 A, B, C, & D; Main Dish Objective 11 (Problem Solving) Lessons 1, 2, 3, & 4		
4.9	<i>Analyze problem situations, use an organized approach, and select appropriate strategies and technology to solve problems involving probability and statistics.</i>	Appetizers 5 C; 11 D; 12 A, B, & C; Main Dish Objectives 5 (Probability/Statistics) Lesson 3; 11 (Problem Solving) Lesson 4; 12 (Mathematical Representation) Lessons 1, 2, & 3		