

**Mississippi
Curricular Standards
Mathematics - Grade 7
Correlations with Gourmet Curriculum Press, Inc.®
1.800.900.2290**

Benchmark Number	Benchmark • Instructional Target	Gourmet Resource	Taught	Tested
1	Apply concepts and perform the basic operations with decimals, fractions, and mixed numbers. (P, M, N)			
a	• Compare, order, round, and estimate decimals.	Appetizers 1 A & B; (Number Concepts)		
b	• Add, subtract, multiply, and divide decimals in real-life situations with and without calculators.	Appetizers 6 A; 7 A; 8 A; 9 A; (Addition); (Subtraction); (Multiplication); (Division)		
c	• Use powers of ten to multiply and divide decimals.	Appetizers 8 A; 9 A; (Multiplication); (Division)		
d	• Convert among decimals, fractions, and mixed numbers.	Appetizers 1 C; (Number Concepts)		
e	• Express ratios as fractions.	Appetizers 1 E; (Number Concepts)		
f	• Add, subtract, multiply, and divide fractions and mixed numbers.	Appetizers 6 A; 7 A; 8 A; 9 A; (Addition); (Subtraction); (Multiplication); (Division)		
g	• Use estimation to add, subtract, multiply, and divide fractions.	Appetizers 10 A; (Estimation)		
2	Apply and use basic principles of number sense. (P, M, N)			
a	• Use patterns to develop the concept of exponents.	Appetizers 1 D; (Number Concepts)		
b	• Write numbers in standard and exponential form.	Appetizers 1 D; (Number Concepts)		
c	• Convert between standard form and scientific notation.	Appetizers 1 D & G; (Number Concepts)		
d	• Find and use prime factorization with exponents to obtain the greatest common factor (GCF) and least common multiple (LCM).	Appetizers 1 E & F; (Number Concepts)		

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e	• Describe and extend patterns in sequences.	Appetizers 2 B; (Mathematical Relations)		
f	• Identify and use the commutative, associative, distributive, and identity properties.	Appetizers 2 A; (Mathematical Relations)		
g	• Use patterns to develop the concepts of roots of perfect squares with and without calculators.	Appetizers 1 G; (Number Concepts)		
3	Use units of measurement with standard systems. (P, D, M, G, N)			
a	• Convert within a standard measurement system (English and metric).	Appetizers 4 C; (Measurement)		
b	• Convert temperature using the Fahrenheit and Celsius formulas.	Appetizers 4 A; (Measurement)		
c	• Use standard units of measurement to solve application problems.	Appetizers 4 C; (Measurement)		
4	Collect, organize, and summarize data and use simple probability. (P, D, M, G, N)			
a	• Organize data in a frequency table.	Appetizers 5 D; (Probability/Statistics)		
b	• Interpret and construct histograms, line, and bar graphs.	Appetizers 5 D; (Probability/Statistics)		
c	• Interpret and construct circle graphs when given degrees.			
d	• Interpret and construct stem and leaf plots and line plots from data.	Appetizers 5 D; (Probability/Statistics)		
e	• Estimate and compare data including mean, median, mode, and range of a set of data.	Appetizers 5 E; (Probability/Statistics)		
f	• Predict and recognize data from statistical graphs.	Appetizers 5 D; 11 D; (Probability/Statistics); (Problem Solving)		
g	• Determine probability of a single event.	Appetizers 5 A; (Probability/Statistics)		
h	• Use simple permutations and combinations.	Appetizers 5 A; (Probability/Statistics)		

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5	Use concepts of geometry in angles and polygons and extend the concepts of perimeter and area. (P, G, M, N)			
a	• <i>Identify polygons to twelve sides.</i>	Appetizers 3 A; (Geometry)		
b	• <i>Classify and compare the properties of quadrilaterals.</i>	Appetizers 3 E; (Geometry)		
c	• <i>Classify and measure angles of all types.</i>	Appetizers 3 D; (Geometry)		
d	• <i>Classify triangles by sides and angles.</i>	Appetizers 3 E; (Geometry)		
e	• <i>Find the perimeter of polygons.</i>	Appetizers 4 D; (Measurement)		
f	• <i>Find the area of triangles and quadrilaterals.</i>	Appetizers 3 E; (Geometry)		
g	• <i>Find the circumference and area of a circle.</i>	Appetizers 4 D; (Measurement)		
h	• <i>Identify congruent segments, angles, and polygons.</i>	Appetizers 3 D; (Geometry)		
i	• <i>Develop relationships of faces, vertices, and edges of three-dimensional figures.</i>	Appetizers 3 A; (Geometry)		
j	• <i>Perform transformations (rotations, reflections, translations) on plane figures using physical models and graph paper.</i>	Appetizers 3 B; (Geometry)		
k	• <i>Investigate symmetry of polygons.</i>	Appetizers 3 C; (Geometry)		
l	• <i>Develop and apply the Pythagorean theorem to find missing sides of right triangles.</i>	Appetizers 3 E; (Geometry)		

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6	Develop and apply the basic operations of integers. (P, D, M, G, N)			
a	• <i>Recognize and write integers including opposites and absolute value.</i>	Appetizers 2 F; (Mathematical Relations)		
b	• <i>Compare and order integers.</i>	Appetizers 1 A; (Number Concepts)		
c	• <i>Graph ordered pairs on a coordinate plane.</i>	Appetizers 2 H; (Mathematical Relations)		
d	• <i>Add, subtract, multiply, and divide integers with and without calculators.</i>	Appetizers 6 A; 7 A; 8 A; 9 A; (Addition); (Subtraction); (Multiplication); (Division)		
7	Create and apply algebraic expressions and equations. (P, G, N)			
a	• <i>Translate between simple algebraic expressions and verbal phrases.</i>	Appetizers 2 D; (Mathematical Relations)		
b	• <i>Use the order of operations to simplify and/or evaluate numerical and algebraic expressions with and without calculators.</i>	Appetizers 2 A; (Mathematical Relations)		
c	• <i>Solve linear equations using the addition, subtraction, multiplication, and division properties of equality with integer solutions.</i>	Appetizers 2 D; 12 A; (Mathematical Relations); (Mathematical Representation)		
d	• <i>Write and solve equations that represent problem-solving situations.</i>	Appetizers 2 D; 11 A; 12 A; (Mathematical Relations); (Problem Solving); Mathematical Representation)		
e	• <i>Write a real-world situation from a given equation.</i>			

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8	Survey and apply concepts of ratio, proportion, and percent. (P, D, M, G, N)			
a	• <i>Explore equivalent ratios and express them in simplest form.</i>	Appetizers 2 C; (Mathematical Relations)		
b	• <i>Solve problems involving proportions.</i>	Appetizers 2 B; (Mathematical Relations)		
c	• <i>Determine unit rates.</i>	Appetizers 10 B; (Estimation)		
d	• <i>Use models to illustrate the meaning of percent.</i>	Appetizers 1 C (Number Concepts)		
e	• <i>Convert among decimals, fractions, mixed numbers, and percents.</i>	Appetizers 1 C (Number Concepts)		
f	• <i>Determine the percent of a number.</i>	Appetizers 1 C (Number Concepts)		
g	• <i>Estimate decimals, fractions, and percents.</i>	Appetizers 10 A; (Estimation)		
h	• <i>Use proportions and equations to solve problems with rate, base, and part with and without calculators.</i>	Appetizers 10 B; (Estimation)		
i	• <i>Find the percent of increase and decrease.</i>	Appetizers 2 B; (Mathematical Relations)		
j	• <i>Solve problems involving sales tax, discount, and simple interest with and without calculators.</i>	Appetizers 2 B; 10 B; 12 A; (Mathematical Relations); (Estimation); (Mathematical Representation)		

Patterns/Algebraic Thinking (P)
 Data Analysis/Prediction (D)
 Measurement (M)
 Geometric Concepts (G)
 Number Sense (N)