

**Mississippi
Curricular Standards
Mathematics - Grade 8
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 using real numbers. (P, D, G, N)			
a	• <i>Classify and give examples of real numbers such as natural, whole, integers, rational, and irrational.</i>	Appetizers 1 C; (Number Concepts)		
b	• <i>Identify, compare, and order fractions and decimals.</i>	Appetizers 1 C; (Number Concepts)		
c	• <i>Round and estimate fractions and decimals.</i>	Appetizers 1 E; (Number Concepts)		
d	• <i>Solve real-life problems involving addition, subtraction, multiplication, and division of fractions, decimals, and mixed numbers.</i>	Appetizers 6 A; 7 A; 8 A; 9 A; 11 A; (Addition); (Subtraction); (Multiplication); (Division); (Problem Solving)		
e	• <i>Determine the absolute value and additive inverse of real numbers.</i>	Appetizers 2 A; (Mathematical Relations)		
f	• <i>Classify, compare, and order integers and rational numbers.</i>	Appetizers 1 C; (Number Concepts)		
g	• <i>Add, subtract, multiply, and divide integers and rational numbers with and without calculators.</i>	Appetizers 6 A; 7 A; 8 A; 9 A; 11 A; (Addition); (Subtraction); (Multiplication); (Division); (Problem Solving)		
2	Use basic concepts of number sense and perform operations involving order of operations, exponents, scientific notation. (P, M, N)			
a	• <i>Simplify expressions using order of operations.</i>	Appetizers 2 A; (Mathematical Relations)		
b	• <i>Use the rules of exponents when multiplying or dividing like bases, and when raising a power to a power.</i>	Appetizers 1 B; 2 E; (Number Concepts); (Mathematical Relations)		

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c	• <i>Multiply and divide numbers by powers of tens.</i>	Appetizers 1 A; (Number Concepts)		
d	• <i>Convert between standard form and scientific notation.</i>	Appetizers 1 A; (Number Concepts)		
e	• <i>Multiply and divide numbers written in scientific notation.</i>	Appetizers 1 A; (Number Concepts)		
f	• <i>Evaluate and estimate powers, squares, and square roots with and without calculators.</i>	Appetizers 1 A; (Number Concepts)		
3	Use properties to create and simplify algebraic expressions and solve linear equations and inequalities. (P, G, N)			
a	• <i>Identify and apply the commutative, associative, and distributive properties.</i>	Appetizers 2 A; 13 C; (Mathematical Relations); (Reasonableness)		
b	• <i>Distinguish between numerical and algebraic expressions, equations, and inequalities.</i>	Appetizers 2 F & G; (Mathematical Relations)		
c	• <i>Convert between word phrases or sentences and algebraic expressions, equations, or inequalities.</i>	Appetizers 2 F & G; (Mathematical Relations)		
d	• <i>Simplify and evaluate numerical and algebraic expressions.</i>	Appetizers 2 F; (Mathematical Relations)		
e	• <i>Solve and check one and two-step linear equations and inequalities.</i>	Appetizers 12 A; (Mathematical Representation)		
f	• <i>Solve and check multi-step linear equations using the distributive property.</i>			
g	• <i>Graph solutions to inequalities on a number line.</i>	Appetizers 2 C; 12 B; (Mathematical Relations); (Mathematical Representation)		
h	• <i>Write a corresponding real-life situation from an algebraic expression.</i>	Appetizers 13 B & C; (Reasonableness)		

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4	Apply the concepts of ratio, proportion, and percent to solve real-life problems. (P, D, M, G, N)			
a	• <i>Write ratios comparing given data.</i>	Appetizers 2 D; (Mathematical Relations)		
b	• <i>Convert among ratios, decimals, and percents.</i>	Appetizers 1 E; (Number Concepts)		
c	• <i>Solve proportions.</i>	Appetizers 2 D; 8 B; (Mathematical Relations); (Multiplication)		
d	• <i>Solve for part, rate, or base.</i>	Appetizers 8 B; (Multiplication)		
e	• <i>Find commissions and rates of commission, discounts, sale prices, sales tax, and simple interest.</i>	Appetizers 2 G; (Mathematical Relations)		
f	• <i>Find percent of increase and decrease.</i>	Appetizers 11 B; (Problem Solving)		
g	• <i>Write and solve real-life word problems using percents with and without calculators.</i>	Appetizers 11 B; (Problem Solving)		
5	Convert and use standard units (English and metric) of measurement. (P, D, M, G, N)			
a	• <i>Convert, perform basic operations, and solve word problems using standard measurements.</i>	Appetizers 4 A & C; (Measurement)		
b	• <i>Measure line segments and find dimensions of given figures using standard measurements.</i>	Appetizers 4 A & C; (Measurement)		
c	• <i>Write and solve real-life problems involving standard measurements.</i>	Appetizers 4 A & C; 11 C; (Measurement); (Problem Solving)		
d	• <i>Select appropriate units of measurement for real-life problems.</i>	Appetizers 4 A, B, & C; (Measurement)		

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6	Apply geometric principles to polygons, angles, and two and three-dimensional figures. (P, M, G, N)			
a	• <i>Identify parallel, perpendicular, intersecting, and skew lines.</i>	Appetizers 3 A; (Geometry)		
b	• <i>Identify and describe characteristics of polygons.</i>	Appetizers 3 A; (Geometry)		
c	• <i>Find the perimeter and area of polygons and circumference and area of circles.</i>	Appetizers 4 D & E; (Measurement)		
d	• <i>Classify, draw, and measure acute, obtuse, right, and straight angles.</i>	Appetizers 3 G; (Geometry)		
e	• <i>Identify and find the missing angle measure for adjacent, vertical, complementary, and supplementary angles.</i>	Appetizers 3 C; (Geometry)		
f	• <i>Locate and identify angles formed by parallel lines cut by a transversal (e.g., corresponding, alternate interior, and alternate exterior).</i>			
g	• <i>Classify triangles by sides and angles and find the missing angle measure.</i>			
h	• <i>Identify three-dimensional figures and describe their faces, vertices, and edges.</i>	Appetizers 3 A & B; (Geometry)		
i	• <i>Use the Pythagorean Theorem to solve problems, with and without a calculator.</i>	Appetizers 3 D; (Geometry)		
7	Interpret, organize, and make predictions about a variety of data using concepts of probability and statistics. (P, D, M, G, N)			
a	• <i>Interpret and construct frequency tables and charts.</i>	Appetizers 5 D; (Probability/Statistics)		
b	• <i>Find mean, median, mode, and range of a given set of data.</i>	Appetizers 5 C; (Probability/Statistics)		
c	• <i>Interpret and construct bar, line, circle graphs, and pictographs from given data.</i>	Appetizers 12 B; (Mathematical Representation)		

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d	• <i>Interpret and construct stem-and-leaf, box-and-whisker, and scatterplots from given data.</i>	Appetizers 12 B; (Mathematical Representation)		
e	• <i>Predict patterns or trends based on given data.</i>	Appetizers 12 C; (Mathematical Representation)		
f	• <i>Use combinations and permutations in application problems.</i>	Appetizers 5 A; (Probability/Statistics)		
g	• <i>Calculate and apply basic probability.</i>	Appetizers 5 A & B; 11 E; (Probability/Statistics); (Problem Solving)		
8	Apply the principles of graphing in the coordinate system. (P, D, M, G, N)			
a	• <i>Identify the x- and y-axis, the origin, and the quadrants of a coordinate plane.</i>	Appetizers 2 C; (Mathematical Relations)		
b	• <i>Plot ordered pairs.</i>	Appetizers 2 C; (Mathematical Relations)		
c	• <i>Label the x and y coordinates for a given point.</i>	Appetizers 2 C; (Mathematical Relations)		
d	• <i>Using tables, graph simple linear equations.</i>	Appetizers 2 G; 12 B; 13 C; (Mathematical Relations); (Mathematical Representation); (Reasonableness)		

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