

**Mississippi  
Curricular Standards  
Mathematics - Grade 5  
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<b>Benchmark Number</b>	<b>Benchmark • Instructional Target</b>	<b>Gourmet Resource</b>	<b>Taught</b>	<b>Tested</b>
<b>1</b>	<b>Identify, describe, compare, and classify geometric figures. (P, M, G, N)</b>			
<b>a</b>	<ul style="list-style-type: none"> <li>• Draw, label, describe, classify, and identify points, lines, line segments, and rays.</li> </ul>	Appetizers 3 E; Main Dish Objective 3 (Geometry) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>b</b>	<ul style="list-style-type: none"> <li>• Identify, classify, and find the perimeter of polygons.</li> </ul>	Appetizers 4 D; Main Dish Objective 4 (Measurement) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>c</b>	<ul style="list-style-type: none"> <li>• Find the area of squares and rectangles.</li> </ul>	Appetizers 4 D; Main Dish Objective 4 (Measurement) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>d</b>	<ul style="list-style-type: none"> <li>• Incorporate appropriate technology and manipulatives to explore geometric figures.</li> </ul>			
<b>e</b>	<ul style="list-style-type: none"> <li>• Use geometric ideas to solve multi-step problems.</li> </ul>	Appetizers 11; Main Dish Objective 11 (Problem Solving) Enrichment - "A Housing Problem"; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>f</b>	<ul style="list-style-type: none"> <li>• Model, draw, and describe transformations (flips, slides, and turns) of two-dimensional figures.</li> </ul>	Appetizers 3 C; Main Dish Objective 3 (Geometry) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>g</b>	<ul style="list-style-type: none"> <li>• <i>Draw, measure, label, describe, and classify angles, quadrilaterals, and triangles.</i></li> </ul>	<b>Appetizers 3 E &amp; F; Main Dish Objective 3 (Geometry) Lessons 5 &amp; 6; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>2</b>	<b>Develop concepts and the process of measuring related to units of measure. (P, D, M, G, N)</b>			
<b>a</b>	<ul style="list-style-type: none"> <li>• <i>Find measurements of length to nearest millimeter in the metric system and one-eighth inch to the English system.</i></li> </ul>	<b>Appetizers 4 A &amp; B; Main Dish Objective 4 (Measurement) Lessons 1 &amp; 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>b</b>	<ul style="list-style-type: none"> <li>• <i>Determine appropriate units for measurement of mass, length, distance, volume, and time in the standard (English and metric) systems.</i></li> </ul>	<b>Appetizers 4 A, B, C, D, &amp; E; Main Dish Objective 4 (Measurement) Lessons 1, 2, 3, 4, &amp; 5; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>c</b>	<ul style="list-style-type: none"> <li>• <i>Use appropriate tools to measure area, perimeter, circumference, radius, and diameter in the standard (English and metric) systems.</i></li> </ul>	<b>Appetizers 4 D &amp; F; Main Dish Objective 4 (Measurement) Lessons 4 &amp; 6; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>d</b>	<ul style="list-style-type: none"> <li>• <i>Convert units within a given measurement system.</i></li> </ul>	<b>Appetizers 4 B; Main Dish Objective 4 (Measurement) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>e</b>	<ul style="list-style-type: none"> <li>• <i>Estimate measurements of various objects.</i></li> </ul>	<b>Appetizers 10 A; 13 A; Main Dish Objectives 10 (Estimation) Lesson 1; 13 (Reasonableness) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>f</b>	<ul style="list-style-type: none"> <li>• <i>Solve multi-step problems using suitable measurements.</i></li> </ul>	<b>Appetizers 3; 4; 11 B; Main Dish Objectives 3 (Geometry); 4 (Measurement); 11 (Problem Solving) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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<b>g</b>	• <i>Incorporate appropriate technology and manipulatives to explore measurement.</i>			
<b>3</b>	<b>Collect, read, organize, and interpret data and explore probability. (P, D, M, G, N)</b>			
<b>a</b>	• <i>Investigate the probability and patterns in tossing coins, number cubes, and spinners.</i>	<b>Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>b</b>	• <i>Draw and label bar, line, circle graphs, and pictographs.</i>	<b>Appetizers 5 B; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>c</b>	• <i>Gather, organize, and analyze data to create tables, charts, and graphs.</i>	<b>Appetizers 5 B; 12; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation); Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>d</b>	• <i>Incorporate appropriate technology and manipulatives to explore data collection, organization, and interpretation.</i>			
<b>4</b>	<b>Explain and explore relationships of whole numbers, fractions, mixed numerals, decimals, and percents. (P, D, G, N)</b>			
<b>a</b>	• <i>Compare and order nine-digit whole numbers, decimals to the nearest thousandth, like and unlike fractions, and mixed numerals using appropriate symbols.</i>	<b>Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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<b>b</b>	<ul style="list-style-type: none"> <li>• <i>Read and write standard form and expanded notation for numbers through hundred millions.</i></li> </ul>	Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>c</b>	<ul style="list-style-type: none"> <li>• <i>Use divisibility rules to identify factors and multiples of whole numbers to 500.</i></li> </ul>	Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>d</b>	<ul style="list-style-type: none"> <li>• <i>Model and distinguish between prime and composite numbers, factors and common factors, multiples and common multiples.</i></li> </ul>	Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>e</b>	<ul style="list-style-type: none"> <li>• <i>Model and show relationships among fractions, decimals, and percents.</i></li> </ul>	Appetizers 1 B, C, & D; Main Dish Objective 1 (Number Concepts) Lessons 2, 3, & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>f</b>	<ul style="list-style-type: none"> <li>• <i>Model, identify, and write equivalent fractions including improper fractions and mixed numerals with like and unlike denominators.</i></li> </ul>	Appetizers 1 C & D; Main Dish Objective 1 (Number Concepts) Lessons 3 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>g</b>	<ul style="list-style-type: none"> <li>• <i>Develop the terminology relating to percent and compute percentages of 10, 20, 25, and 50 percent of a number.</i></li> </ul>	Appetizers 5 D; Main Dish Objective 5 (Probability/Statistics) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>5</b>	<b>Use the basic operations to investigate and apply whole numbers, fractions, mixed numbers, and decimals. (P, D, M, G, N)</b>			
<b>a</b>	• <i>Add and subtract nine-digit whole numbers with and without regrouping.</i>	<b>Appetizers 6 A; 7 A; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>b</b>	• <i>Multiply four-digit numbers by two-digit numbers.</i>	<b>Appetizers 8 B; Main Dish Objective 8 (Multiplication) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>c</b>	• <i>Divide by two-digit divisors with and without remainders.</i>	<b>Appetizers 9 A; Main Dish Objective 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>d</b>	• <i>Add and subtract like/unlike fractions and mixed numerals.</i>	<b>Appetizers 6 F; 7 C; Main Dish Objectives 6 (Addition) Lesson 6; 7 (Subtraction) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>e</b>	• <i>Add and subtract decimals.</i>	<b>Appetizers 6 C; 7 B; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>f</b>	• <i>Solve problems dealing with money.</i>	<b>Appetizers 6 B; 7 B; 8 D; Main Dish Objectives 6 (Addition) Lesson 2; 7 (Subtraction) Lesson 2; 8 (Multiplication) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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<b>g</b>	<ul style="list-style-type: none"> <li>Determine unit price when given total cost of items.</li> </ul>	Appetizers 9 A; Main Dish Objective 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>h</b>	<ul style="list-style-type: none"> <li>Incorporate appropriate technology and manipulatives to explore basic operations of whole numbers, fractions, mixed numbers, and decimals.</li> </ul>			
<b>i</b>	<ul style="list-style-type: none"> <li>Solve multi-step word problems using the four basic operations with computation and estimation.</li> </ul>	Appetizers 6; 7; 8; 9; 10; 11; 12; Main Dish Objectives 6 (Addition); 7 (Subtraction); 8 (Multiplication); 9 (Division); 10 (Estimation); 11 (Problem Solving); 12 (Mathematical Representation); 13 (Reasonableness); Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>j</b>	<ul style="list-style-type: none"> <li>Use symbols and variables in addition, subtraction, multiplication, and division problems.</li> </ul>	Appetizers 6; 7; 8; 9; 10; 11; 12; Main Dish Objectives 6 (Addition); 7 (Subtraction); 8 (Multiplication); 9 (Division); 10 (Estimation); 11 (Problem Solving); 12 (Mathematical Representation); 13 (Reasonableness); Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>k</b>	<ul style="list-style-type: none"> <li>Select and use estimation techniques appropriate to specific problems.</li> </ul>	Appetizers 10 A, B, C, D, E, F, & G; Main Dish Objective 10 (Estimation) Lessons 1, 2, 3, 4, 5, 6, & 7; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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