

**Mississippi  
Curricular Standards  
Mathematics - Grade 6  
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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>Apply the use of algebraic functions, patterns, sequences, and languages. (P, D, M, G, N)</b>			
<b>a</b>	<ul style="list-style-type: none"> <li>Solve equations with one variable using addition and subtraction.</li> </ul>	Appetizers 2 D; 12 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 4; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>b</b>	<ul style="list-style-type: none"> <li>Model simple addition and subtraction problems using integers on a number line.</li> </ul>	Appetizers 2 F; Main Dish Objective 2 (Mathematical Relations) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>c</b>	<ul style="list-style-type: none"> <li>Recognize and continue a number pattern and/or geometric representation (e.g., triangular numbers).</li> </ul>	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>d</b>	<ul style="list-style-type: none"> <li>State a rule to explain a number pattern.</li> </ul>	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>e</b>	<ul style="list-style-type: none"> <li>Using whole numbers, complete a function table based on a given rule.</li> </ul>	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>f</b>	<ul style="list-style-type: none"> <li>• <i>Locate points in all four quadrants of the coordinate plane.</i></li> </ul>	Appetizers 2 E; Main Dish Objective 2 (Mathematical Relations) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>2</b>	<b>Explore geometric patterns and relationships. (P, M, G, N)</b>			
<b>a</b>	<ul style="list-style-type: none"> <li>• <i>Draw points, lines (parallel, perpendicular, intersecting), line segments, and rays.</i></li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>b</b>	<ul style="list-style-type: none"> <li>• <i>Identify, classify, and measure right, acute, obtuse, and straight angles.</i></li> </ul>	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>c</b>	<ul style="list-style-type: none"> <li>• <i>Create tessellations with polygons.</i></li> </ul>			
<b>d</b>	<ul style="list-style-type: none"> <li>• <i>Explore the relationships of three-dimensional figures, including vertices, faces, and edges using manipulative materials.</i></li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>e</b>	<ul style="list-style-type: none"> <li>• <i>Describe, compare, construct, classify, and identify flips, slides, turns (reflections, translations, rotations).</i></li> </ul>	Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>3</b>	<b>Solve geometric problems using formulas. (P, M, G, N)</b>			
<b>a</b>	<ul style="list-style-type: none"> <li>• <i>Calculate the area of parallelograms (squares and rectangles) without using calculators.</i></li> </ul>	Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>b</b>	<ul style="list-style-type: none"> <li>• <i>Find the circumference of a circle with and without the use of manipulative materials.</i></li> </ul>	Appetizers 4 D; Main Dish Objective 4 (Measurement) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>c</b>	• <i>Determine the area of a circle with and without the use of calculators.</i>	<b>Appetizers 4 D; Main Dish Objective 4 (Measurement) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>d</b>	• <i>Find the volume of cubes and rectangular prisms with and without the use of calculators.</i>	<b>Appetizers 4 E; Main Dish Objective 4 (Measurement) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>4</b>	<b>Use and explore the concepts of measurement. (P, D, M, G, N)</b>			
<b>a</b>	• <i>Measure length to the nearest one-sixteenth inch.</i>	<b>Appetizers 4 C; Main Dish Objective 4 (Measurement) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>b</b>	• <i>Identify appropriate units for measuring length, weight, volume, and temperature in the standard (English and metric) systems.</i>	<b>Appetizers 4 B &amp; C; Main Dish Objective 4 (Measurement) Lessons 2 &amp; 3; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>c</b>	• <i>Use appropriate mathematical tools for determining length, weight, volume, and temperature in the standard (English and metric) systems.</i>	<b>Appetizers 4 B &amp; C; Main Dish Objective 4 (Measurement) Lessons 2 &amp; 3; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>d</b>	• <i>Use estimation to solve problems in the standard (English and metric) systems.</i>	<b>Appetizers 4 B &amp; C</b>		
<b>e</b>	• <i>Convert units within a measurement system.</i>	<b>Appetizers 4 B &amp; C; Main Dish Objective 4 (Measurement) Lessons 2 &amp; 3; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>f</b>	• <i>Explore the relationship between integers.</i>	<b>Appetizers 1 A; 4 A; Main Dish Objectives 1 (Number Concepts) Lesson 1; 4 (Measurement) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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5	Use probability and collect, organize, interpret, and display types of data using manipulatives, paper and pencil, calculators and/or computers. (P, D, M, G, N)			
a	• Read and construct line, bar, and pictographs.	Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
b	• Read and interpret circle graphs using percents.	Appetizers 5 B; 12 C; Main Dish Objectives 5 (Probability/Statistics) Lesson 2; 12 (Mathematical Representation) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
c	• Construct and explain a frequency table.			
d	• Solve problems involving combinations.	Appetizers 5 A & C; Main Dish Objective 5 (Probability/Statistics) Lessons 1 & 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
e	• Use probability to predict the outcomes of a single event and express the result as a fraction or decimal.	Appetizers 5 D; Main Dish Objective 5 (Probability/Statistics) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
f	• Estimate and compare data to include mean, median, and mode.	Appetizers 5 E; Main Dish Objective 5 (Probability/Statistics) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>6</b>	<b>Recognize and use place and value, and order of whole and decimal numbers. (P, D, N)</b>			
<b>a</b>	• <i>Read, write, and round twelve-digit whole numbers.</i>	<b>Appetizers 1 A &amp; B; 10 A; Main Dish Objectives 1 (Number Concepts) Lessons 1 &amp; 2; 10 (Estimation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>b</b>	• <i>Compare and order whole numbers using &lt;, &gt;, and =.</i>	<b>Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>c</b>	• <i>Write twelve-digit whole numbers using expanded notation.</i>	<b>Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>d</b>	• <i>Read, write, and round decimal numbers to the nearest ten thousandth.</i>	<b>Appetizers 1 B; Main Dish Objective 1 (Number Concepts) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>e</b>	• <i>Compare and order decimal numbers using &lt;, &gt;, and =.</i>	<b>Appetizers 1 A; Main Dish Objective 1 (Number Concepts) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>g</b>	• <i>Use estimation to determine accuracy of solutions.</i>	<b>Appetizers 1 A; 10 A; Main Dish Objectives 1 (Number Concepts) Lesson 1; 10 (Estimation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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<b>7</b>	<b>Utilize estimation and technology to perform the four basic operations. (P, N)</b>			
<b>a</b>	<ul style="list-style-type: none"> <li>Multiply a three-digit decimal number by a two-digit decimal number.</li> </ul>	Appetizers 8 B; Main Dish Objective 8 (Multiplication) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>b</b>	<ul style="list-style-type: none"> <li>Divide a five-digit decimal number by a two-digit decimal number.</li> </ul>	Appetizers 9 E; Main Dish Objective 9 (Division) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>c</b>	<ul style="list-style-type: none"> <li>Round decimal quotients to the nearest whole number, tenths and hundredths.</li> </ul>	Appetizers 10 E; Main Dish Objective 10 (Estimation) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>d</b>	<ul style="list-style-type: none"> <li>Estimate and solve one and two-step problems involving addition, subtraction, multiplication, and division of decimals, with and without calculators.</li> </ul>	Appetizers 6 D; 7 C; 8 D; 9 E; 10 E & G; Main Dish Objectives 6 (Addition) Lesson 4; 7 (Subtraction) Lesson 3; 8 (Multiplication) Lesson 4; 9 (Division) Lesson 5; 10 (Estimation) Lessons 5 & 7; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>8</b>	<b>Determine multiple relationships among ratios, proportions, decimal numbers, percents, and fractions. (P, D, M, G, N)</b>			
<b>a</b>	<ul style="list-style-type: none"> <li>Demonstrate different ways to express ratios.</li> </ul>	Appetizers 1 E; 2 C; Main Dish Objectives 1 (Number Concepts) Lesson 5; 2 (Mathematical Relations) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>b</b>	<ul style="list-style-type: none"> <li>Create and solve proportional equations using one variable.</li> </ul>	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>c</b>	• <i>Convert among fractions, decimals, and percents.</i>	Appetizers 1 D & E; Main Dish Objective 1 (Number Concepts) Lessons 4 & 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>d</b>	• <i>Find the percent of a number.</i>	Appetizers 1 E; Main Dish Objective 1 (Number Concepts) Lesson 5; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>e</b>	• <i>Estimate and calculate sale price and/or original price using discount rates.</i>			
<b>9</b>	<b>Explore the relationships between fractions and mixed numerals. (P, M, N)</b>			
<b>a</b>	• <i>Compare and order fractions as well as mixed numerals.</i>	Appetizers 1 C & D; Main Dish Objective 1 (Number Concepts) Lessons 3 & 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>b</b>	• <i>Determine equivalent forms of fractions.</i>	Appetizers 1 C; Main Dish Objective 1 (Number Concepts) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>c</b>	• <i>Use a variety of techniques to express a fraction in simplest form (e.g., least common denominator, prime factorization).</i>	Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>d</b>	• <i>Locate fractions, decimals, and mixed numerals on a number line.</i>	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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<b>e</b>	• <i>Add and subtract mixed numerals, with and without regrouping, expressing the answer in simplest form using like and unlike denominators.</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>Multiply and divide proper fractions as well as mixed numerals expressing the answer in simplest form.</i>			
<b>g</b>	• <i>Estimate, solve, and compare solutions to one and two-step problems involving addition, subtraction, multiplication, and division of proper fractions and mixed numerals.</i>	<b>Appetizers 11 A; Main Dish Objective 11 (Problem Solving) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>10</b>	<b>Investigate and apply the concepts of prime and composite numbers, greatest common factor, and the least common multiple. (P, D, N)</b>			
<b>a</b>	• <i>Use the rules of divisibility to determine factors and multiples of a given number.</i>	<b>Appetizers 1 D; Main Dish Objective 1 (Number Concepts) Lesson 4; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>b</b>	• <i>Model and write the prime factorization of a number using exponential notation.</i>	<b>Appetizers 1 F; Main Dish Objective 1 (Number Concepts) Lesson 6; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>c</b>	• <i>Distinguish between prime and composite numbers, with and without the use of calculators.</i>			

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<b>d</b>	<ul style="list-style-type: none"> <li>• <i>Use the greatest common factor (GCF) to simplify fractions.</i></li> </ul>	<b>Appetizers 1 D;</b> <b>Main Dish Objective 1 (Number Concepts) Lesson 4;</b> <b>Applications; Final Tests;</b> <b>Reasonableness Problems;</b> <b>Journal Topics</b>		
<b>e</b>	<ul style="list-style-type: none"> <li>• <i>Use the least common multiple (LCM) to find common denominators.</i></li> </ul>	<b>Appetizers 1 D;</b> <b>Main Dish Objective 1 (Number Concepts) Lesson 4;</b> <b>Applications; Final Tests;</b> <b>Reasonableness Problems;</b> <b>Journal Topics</b>		

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