

*New Mexico*  
**Curricular Standards**  
**Mathematics - Grade 4**  
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<i>Benchmark Number</i>	<i>Benchmark</i> • <i>Instructional Targets</i>	<i>Gourmet Resource</i>	<i>Taught</i>	<i>Tested</i>
	<b>NUMBER AND OPERATIONS</b>			
<b>Content Standard</b>	Students will understand numerical concepts and mathematical operations.			
<b>Grade 4 Benchmark</b>	Understand numbers, ways of representing numbers, relationships among numbers, and number systems.			
<b>1</b>	<ul style="list-style-type: none"> <li>• <i>Exhibit an understanding of the place-value structure of the base-ten number system by reading, modeling, writing, and interpreting whole numbers up to 100,000; compare and order the numbers: recognize equivalent representations for the same number and generate them by decomposing and combining numbers (e.g., <math>853 = 8 \times 100 + 5 \times 10 + 3</math>; <math>853 = 85 \times 10 + 3</math>; <math>853 = 900 - 50 + 3</math>)</i></li> <li>- <i>identify the numbers less than 0 by extending the number line and using negative numbers through familiar applications (e.g., temperature, money)</i></li> </ul>	<b>Appetizers 1 A, B, &amp; C; Main Dish Objective 1 (Number Concepts) Lessons 1, 2, &amp; 3; Applications; Final Test; Reasonableness Problems; Journal Topics</b>		

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2	<ul style="list-style-type: none"> <li>Identify fractions as parts of unit wholes, as parts of groups, and as locations on number lines:               <ul style="list-style-type: none"> <li>use visual models and other strategies to compare and order commonly used fractions</li> <li>use models to show how whole numbers and decimals (to the hundredths place) relate to simple fractions (e.g., <math>\frac{1}{2}</math>, <math>\frac{5}{10}</math>, 0.5)</li> <li>identify different interpretations of fractions                   <ul style="list-style-type: none"> <li>division of whole numbers by whole numbers</li> <li>ratio</li> <li>equivalence</li> </ul> </li> <li>ordering of fractions</li> <li>parts of a whole or parts of a set</li> </ul> </li> </ul>	<p>Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7</p> <p>Appetizers 1 E &amp; G; Main Dish Objective 1 (Number Concepts) Lessons 5 &amp; 7</p> <p>Appetizers 9 A; Main Dish Objective 9 (Division) Lesson 1</p> <p>Appetizers 1 G &amp; H; Main Dish Objective 1 (Number Concepts) Lessons 7 &amp; 8</p> <p>Appetizers 1 G; Main Dish Objective 1 (Number Concepts) Lesson 7</p> <p>Applications; Final Tests; Reasonableness Problems; Journal Topics</p>		
3	<ul style="list-style-type: none"> <li>Add and subtract fractions with common and uncommon denominators using a variety of strategies (e.g., manipulatives, numbers, pictures): recognize and generate equivalent decimal forms of commonly used fractions (e.g., halves, quarters, tenths, fifths); identify the numbers less than 0 by extending the number line and using negative numbers through familiar applications (e.g., temperature, money).</li> </ul>	<p>Appetizers 1 D &amp; E; Main Dish Objective 1 (Number Concepts) Lessons 4 &amp; 5; Applications; Final Test; Reasonableness Problems; Journal Topics</p>		
4	<ul style="list-style-type: none"> <li>Recognize classes of numbers (e.g., odd, even, factors, multiples, square numbers) and apply these concepts in problem-solving situations.</li> </ul>	<p>Appetizers 1 F; 8 A; Main Dish Objectives 1 (Number Concepts) Lesson 6; 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</p>		

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<b>Grade 4 Benchmark</b>	Understand the meaning of operations and how they relate to one another.			
<b>1</b>	<ul style="list-style-type: none"> <li>Demonstrate an understanding of and the ability to use:               <ul style="list-style-type: none"> <li>standard algorithms for the addition and subtraction of multi-digit numbers</li> <li>standard algorithms for multiplying a multi-digit number by a two-digit number and for dividing a multi-digit number by a one-digit number</li> </ul> </li> </ul>	<p>Appetizers 6 A; 7 A; 11 A; Main Dish Objectives 6 (Addition) Lesson 1; 7 (Subtraction) Lesson 1; 11 (Problem Solving) Lesson 1</p> <p>Appetizers 8 A &amp; B; Main Dish Objective 8 (Multiplication) Lessons 1 &amp; 2</p> <p>Appetizers 9 A, B, &amp; C; Main Dish Objective 9 (Division) Lessons 1, 2, &amp; 3</p> <p>Applications; Final Tests; Reasonableness Problems; Journal Topics</p>		
<b>2</b>	<ul style="list-style-type: none"> <li>Select and use appropriate operations (addition, subtraction, multiplication, and division) to solve problems.</li> </ul>	<p>Appetizers 11 A &amp; B; 12 A; Main Dish Objectives 11 (Problem Solving) Lessons 1 &amp; 2; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</p>		
<b>3</b>	<ul style="list-style-type: none"> <li>Extend the uses of whole numbers to the addition and subtraction of simple decimals (positive numbers to two places).</li> </ul>	<p>Appetizers 6 C; 7 C; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; Applications; Final Tests; Reasonableness Problems; Journal Topics</p>		
<b>4</b>	<ul style="list-style-type: none"> <li>Demonstrate commutative, associative, identity, and zero properties of operations on whole numbers (e.g., <math>37 \times 46 = 46 \times 37</math> and <math>(6 \times 2) \times 5 = 6 \times (2 \times 5)</math>).</li> </ul>	<p>Appetizers 2 A &amp; B; Main Dish Objective 2 (Mathematical Relations) Lessons 1 &amp; 2; Applications; Final Test; Reasonableness Problems; Journal Topics</p>		
<b>5</b>	<ul style="list-style-type: none"> <li>Demonstrate the concept of distributivity of multiplication over addition and subtraction (e.g., <math>7 \times 28</math> is equivalent to <math>(7 \times 20) + (7 \times 8)</math> or <math>(7 \times 30) - (7 \times 2)</math>).</li> </ul>			

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<b>Grade 4 Benchmark</b>	Compute fluently and make reasonable estimates.			
<b>1</b>	<ul style="list-style-type: none"> <li><i>Demonstrate multiplication combinations through 12 x 12 and related division facts, and use them to solve problems mentally and compute related problems (e.g., 4 x 5 is related 50 40 x 50, 400 x 5, and 40 x 500).</i></li> </ul>	<b>Appetizers 8 A; Main Dish Objective 8 (Multiplication) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics</b>		
<b>2</b>	<ul style="list-style-type: none"> <li><i>Add, subtract, and multiply up to two double-digits accurately and efficiently.</i></li> </ul>	<b>Appetizers 6 A; 7 A; 8 B; Main Dish Objectives 6 (Addition) Lesson 3; 7 (Subtraction) Lesson 3; 8 (Multiplication) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>3</b>	<ul style="list-style-type: none"> <li><i>Use a variety of strategies (e.g., rounding and regrouping) to estimate the results of whole number computations and judge the reasonableness of the answers.</i></li> </ul>	<b>Appetizers 10 C; 13 B; Main Dish Objectives 10 (Estimation) Lesson 3; 13 (Reasonableness) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>4</b>	<ul style="list-style-type: none"> <li><i>Use strategies to estimate computations involving fractions and decimals.</i></li> </ul>			

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	<b>ALGEBRA</b>			
<b>Content Standard</b>	Students will understand algebraic concepts and applications.			
<b>Grade 4 Benchmark</b>	Understand patterns, relations, and functions.			
<b>1</b>	<ul style="list-style-type: none"> <li>• <i>Represent and analyze patterns and simple functions using words, tables, and graphs.</i></li> </ul>	<b>Appetizers 2 B &amp; D; Main Dish Objective 2 (Mathematical Relations) Lessons 2 &amp; 4; Applications; Final Test; Reasonableness Problems; Journal Topics</b>		
<b>2</b>	<ul style="list-style-type: none"> <li>• <i>Create and describe numeric and geometric patterns including multiplication and division patterns.</i></li> </ul>	<b>Appetizers 8 A; 9 A; Main Dish Objectives 8 (Multiplication) Lesson 1; 9 (Division) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>3</b>	<ul style="list-style-type: none"> <li>• <i>Express mathematical relationships using equations.</i></li> </ul>	<b>Appetizers 12 A; Main Dish Objective 12 (Mathematical Representation) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics</b>		
<b>4</b>	<ul style="list-style-type: none"> <li>• <i>Use and interpret variables, mathematical symbols, and properties to write and simplify expressions and sentences:</i> <ul style="list-style-type: none"> <li>- <i>use letters, boxes, or other symbols to stand for any number in simple expressions or equations (e.g., demonstrate an understanding of the concept of a variable)</i></li> <li>- <i>interpret and evaluate mathematical expressions using parentheses</i></li> <li>- <i>use and interpret formulas (e.g., Area = Length x Width or <math>A = L \times W</math>) to answer questions about quantities and their relationships</i></li> </ul> </li> </ul>	<b>Appetizers 11 A &amp; B; 12 A; Main Dish Objectives 11 (Problem Solving) Lessons 1 &amp; 2; 12 (Mathematical Representation) Lesson 1</b>  <b>Appetizers 2 A &amp; B; Main Dish Objective 2 (Mathematical Relations) Lessons 1 &amp; 2</b>  <b>Appetizers 4 H; 11 E; Main Dish Objectives 4 (Measurement) Lesson 8; 11 (Problem Solving) Lesson 5</b>  <b>Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		

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<b>Grade 4 Benchmark</b>	Represent and analyze mathematical situations and structures using algebraic symbols.			
<b>1</b>	<ul style="list-style-type: none"> <li>Identify symbols and letters that represent the concept of a variable as an unknown quantity.</li> </ul>	Appetizers 11 A & B; 12 A; Main Dish Objectives 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>2</b>	<ul style="list-style-type: none"> <li>Explore the uses of properties (commutative, distributive, associative) in the computation of whole numbers.</li> </ul>	Appetizers 2 A & B; Main Dish Objective 2 (Mathematical Relations) Lessons 1 & 2; Applications; Final Test; Reasonableness Problems; Journal Topics		
<b>3</b>	<ul style="list-style-type: none"> <li>Express mathematical relationships using equations.</li> </ul>	Appetizers 11 A & B; 12 A; Main Dish Objectives 11 (Problem Solving) Lessons 1 & 2; 12 (Mathematical Representation) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>4</b>	<ul style="list-style-type: none"> <li>Determine the value of variables in simple equations (e.g., <math>80 \times 15 = 40 \times \underline{\quad}</math>).</li> </ul>			
<b>5</b>	<ul style="list-style-type: none"> <li>Develop simple formulas in exploring quantities and their relationships (e.g., <math>A = L \times W</math>).</li> </ul>	Appetizers 11 E; Main Dish Objective 11 (Problem Solving) Lesson 5; Application; Final Test; Reasonableness Problems; Journal Topics		

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<b>Grade 4 Benchmark</b>	Use mathematical models to represent and understand quantitative relationships.			
1	<ul style="list-style-type: none"> <li>Solve problems involving proportional relationships (including unit pricing and map interpretations; e.g., one inch = five miles; therefore, five inches = □ miles).</li> </ul>			
2	<ul style="list-style-type: none"> <li>Model problem situations and use graphs, tables, pictures, and equations to draw conclusions (e.g., different patterns of change).</li> </ul>	Appetizers 5 C; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lesson 3; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> <li>Use and interpret formulas (e.g., Area = Length x Width or <math>A = L \times W</math>) to answer questions about quantities and their relationships.</li> </ul>	Appetizers 11 E; Main Dish Objective 11 (Problem Solving) Lesson 5; Application; Final Test; Reasonableness Problems; Journal Topics		
<b>Grade 4 Benchmark</b>	Analyze changes in various contexts.			
1	<ul style="list-style-type: none"> <li>Identify and describe situations with constant or varying rates of change and compare them.</li> </ul>	Appetizers 2 B; Main Dish Objective 2 (Mathematical Relations) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> <li>Determine how a change in one variable relates to a change in a second variable (e.g., data tables, input-output machines).</li> </ul>	Appetizers 2 B; 5 C; 12 B; Main Dish Objectives 2 (Mathematical Relations) Lesson 2; 5 (Probability/Statistics) Lesson 3; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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3	<ul style="list-style-type: none"> <li>Find and analyze patterns using data tables (e.g., T tables).</li> </ul>			
4	<ul style="list-style-type: none"> <li>Demonstrate and describe varying rates of change in relation to real-world situations (e.g., plant growth, students' heights).</li> </ul>			
<b>GEOMETRY</b>				
<b>Content Standard</b>	Students will understand geometric concepts and applications.			
<b>Grade 4 Benchmark</b>	Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematical arguments about geometric relationships.			
1	<ul style="list-style-type: none"> <li>Identify, compare, and analyze attributes of two- and three-dimensional shapes and develop vocabulary to describe the attributes:               <ul style="list-style-type: none"> <li>build, draw, create, and describe geometric objects</li> <li>identify lines that are parallel or perpendicular</li> <li>identify and compare congruent and similar figures</li> </ul> </li> </ul>	<b>Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1</b>  <b>Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4</b>  <b>Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2</b>  <b>Applications; Final Test; Reasonableness Problems; Journal Topics</b>		
2	<ul style="list-style-type: none"> <li>Classify two- and three-dimensional shapes according to their properties and develop definitions of classes like triangles and pyramids:               <ul style="list-style-type: none"> <li>visualize, describe, and make models of geometric solids in terms of the number of faces, edges, and vertices</li> <li>interpret two-dimensional representations of three-dimensional objects</li> </ul> </li> </ul>	<b>Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics</b>		

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3	<ul style="list-style-type: none"> <li>• <i>Make and test conjectures about geometric properties and relationships and develop logical arguments to justify conclusions.</i></li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
<b>Grade 4 Benchmark</b>	Specify locations and describe spatial relationships using coordinate geometry and other representational systems.			
1	<ul style="list-style-type: none"> <li>• <i>Describe location and movement using common language and geometric vocabulary.</i></li> </ul>	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> <li>• <i>Use ordered pairs to graph, locate, identify points, and describe paths in the first quadrant of the coordinate plane.</i></li> </ul>	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> <li>• <i>Use a variety of methods for measuring distances between locations on a grid.</i></li> </ul>	Appetizers 2 D; Main Dish Objective 2 (Mathematical Relations) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		
<b>Grade 4 Benchmark</b>	Apply transformations and use symmetry to analyze mathematical situations.			
1	<ul style="list-style-type: none"> <li>• <i>Create and describe rotational designs using language of transformational symmetry.</i></li> </ul>	Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> <li>• <i>Describe a motion or set of motions that will show that two shapes are congruent.</i></li> </ul>	Appetizers 3 B; Main Dish Objective 3 (Geometry) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics		

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<b>Grade 4 Benchmark</b>	Use visualization, spatial reasoning, and geometric modeling to solve problems.			
1	<ul style="list-style-type: none"> <li>Develop and use mental images of geometric shapes to solve problems (e.g., represent three-dimensional shapes in two dimensions).</li> </ul>	Appetizers 3 A; Main Dish Objective 3 (Geometry) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> <li>Use geometric models such as number lines, arrays, and computer simulations to investigate number relationships (e.g., patterns).</li> </ul>	Appetizers 2 C; 8 A; Main Dish Objectives 2 (Mathematical Relations) Lesson 3; 8 (Multiplication) Lesson 1; Applications; Final Tests; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> <li>Explore relationships involving perimeter and area: <ul style="list-style-type: none"> <li>measure areas of rectangular shapes and use appropriate units</li> <li>recognize that area can have the same perimeter but different areas and vice versa</li> <li>use models and formulas to solve problems involving perimeter and area of rectangles and squares (e.g., arrays).</li> </ul> </li> </ul>	Appetizers 4 H; Main Dish Objective 4 (Measurement) Lesson 8  Appetizers 4 G; Main Dish Objective 4 (Measurement) Lesson 7  Appetizers 4 G & H; Main Dish Objective 4 (Measurement) Lessons 7 & 8  Applications; Final Test; Reasonableness Problems; Journal Topics		
<b>MEASUREMENT</b>				
<b>Content Standard</b>	Students will understand measurement systems and applications.			
<b>Grade 4 Benchmark</b>	Understand measurable attributes of objects and the units, systems, and process of measurement.			
1	<ul style="list-style-type: none"> <li>Select the appropriate type of unit for measuring perimeter and size of an angle.</li> </ul>	Appetizers 3 D; 4 G; Main Dish Objectives 3 (Geometry) Lesson 4; 4 (Measurement) Lesson 7; Applications; Final Tests; Reasonableness Problems; Journal Topics		

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2	<ul style="list-style-type: none"> <li>Understand the need for measuring with standard units and become familiar with the standard units in customary and metric system.</li> </ul>	Appetizers 4 C & D; Main Dish Objective 4 (Measurement) Lessons 3 & 4; Applications; Final Test; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> <li>Identify the inverse relationship between the size of the units and the number of units.</li> </ul>	Appetizers 4 H; Main Dish Objective 4 (Measurement) Lesson 8; Application; Final Test; Reasonableness Problems; Journal Topics		
4	<ul style="list-style-type: none"> <li>Develop formulas to determine the surface areas of rectangular solids.</li> </ul>	Appetizers 4 H; Main Dish Objective 4 (Measurement) Lesson 8; Application; Final Test; Reasonableness Problems; Journal Topics		
5	<ul style="list-style-type: none"> <li>Develop, understand, and use formulas to find the area of rectangles and related triangles and parallelograms.</li> </ul>			
6	<ul style="list-style-type: none"> <li>Carry out simple conversions within a system of measurement (e.g., hours to minutes, meters to centimeters).</li> </ul>	Appetizers 4 A, C, & D; Main Dish Objective 4 (Measurement) Lessons 1, 3, & 4; Applications; Final Test; Reasonableness Problems; Journal Topics		
<b>Grade 4 Benchmark</b>	Apply appropriate techniques, tools, and formulas to determine measurements.			
1	<ul style="list-style-type: none"> <li>Estimate perimeters, areas of rectangles, triangles, and irregular shapes.</li> </ul>	Appetizers 4 G & H; Main Dish Objective 4 (Measurement) Lessons 7 & 8; Applications; Final Test; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> <li>Find the area of rectangles, related triangles, and parallelograms.</li> </ul>			

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3	<ul style="list-style-type: none"> <li>Estimate, measure, and solve problems involving length, area, mass, time, and temperature using appropriate standard units and tools.</li> </ul>	Appetizers 4 A, B, C, D, & H; Main Dish Objective 4 (Measurement) Lessons 1, 2, 3, 4, & 8; Applications; Final Test; Reasonableness Problems; Journal Topics		
4	<ul style="list-style-type: none"> <li>Identify common measurements of turns (e.g., 360 degrees in one turn, 90 degrees in a quarter-turn).</li> </ul>	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		
5	<ul style="list-style-type: none"> <li>Compute elapsed time and make and interpret schedules.</li> </ul>	Appetizers 4 B; Main Dish Objective 4 (Measurement) Lesson 2; Application; Final Test; Reasonableness Problems; Journal Topics		
6	<ul style="list-style-type: none"> <li>Use tools to measure angles (e.g., protractor, compass).</li> </ul>	Appetizers 3 D; Main Dish Objective 3 (Geometry) Lesson 4; Application; Final Test; Reasonableness Problems; Journal Topics		
<b>DATA ANALYSIS AND PROBABILITY</b>				
<b>Content Standard</b>	Students will understand how to formulate questions, analyze data, and determine probabilities.			
<b>Grade 4 Benchmark</b>	Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.			
1	<ul style="list-style-type: none"> <li>Organize, represent, and interpret numerical and categorical data and clearly communicate findings: <ul style="list-style-type: none"> <li>choose and construct representations that are appropriate for the data set</li> <li>recognize the differences in representing categorical and numerical data</li> </ul> </li> </ul>			

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2	<ul style="list-style-type: none"> <li>Design investigations and represent data using tables and graphs (e.g., line plots, bar graphs, line graphs).</li> </ul>			
<b>Grade 4 Benchmark</b>	Select and use appropriate statistical methods to analyze data.			
1	<ul style="list-style-type: none"> <li>Compare and describe related data sets.</li> </ul>	Appetizers 5 C; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lesson 3; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
2	<ul style="list-style-type: none"> <li>Use the concepts of median, mode, maximum, minimum, and range and draw conclusions about a data set.</li> </ul>	Appetizers 13 C; Main Dish Objective 13 (Reasonableness) Lesson 3; Application; Final Test; Reasonableness Problems; Journal Topics		
3	<ul style="list-style-type: none"> <li>Use data analysis to make reasonable inferences/predictions and to develop convincing arguments from data describe in a variety of formats (e.g., bar graphs, Venn diagrams, charts, tables, line graphs, and pictographs).</li> </ul>	Appetizers 5 B & C; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lessons 2 & 3; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics		
<b>Grade 4 Benchmark</b>	Develop and evaluate inferences and predictions that are based on data.			
1	<ul style="list-style-type: none"> <li>Propose and justify conclusions and predictions based on data.</li> </ul>	Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics		

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2	<ul style="list-style-type: none"> <li>Develop convincing arguments from data displayed in a variety of formats.</li> </ul>	<b>Appetizers 5 A, B, &amp; C; 12 B; Main Dish Objectives 5 (Probability/Statistics) Lessons 1, 2, &amp; 3; 12 (Mathematical Representation) Lesson 2; Applications; Final Tests; Reasonableness Problems; Journal Topics</b>		
<b>Grade 4 Benchmark</b>	<b>Understand and apply basic concepts of probability.</b>			
1	<ul style="list-style-type: none"> <li>Describe events as “likely,” “unlikely,” or “impossible” and quantify simple probability situations: <ul style="list-style-type: none"> <li>represent all possible outcomes for a simple probability situation in an organized way (e.g., tables, grids, tree diagrams)</li> <li>express outcomes of experimental probability situations verbally and numerically (e.g., three out of four, <math>\frac{3}{4}</math>)</li> </ul> </li> </ul>	<b>Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1</b>  <b>Appetizers 5 B; Main Dish Objective 5 (Probability/Statistics) Lesson 2</b>  <b>Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1</b>  <b>Applications; Final Test; Reasonableness Problems; Journal Topics</b>		
2	<ul style="list-style-type: none"> <li>List all the possible combinations of objects from three sets (e.g., spinners, number of outfits from three different shirts, two skirts, and two hats).</li> </ul>	<b>Appetizers 5 A; Main Dish Objective 5 (Probability/Statistics) Lesson 1; Application; Final Test; Reasonableness Problems; Journal Topics</b>		