

*New Mexico*  
**Curricular Standards**  
**Mathematics - Grade 7**  
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 1.800.900.2290

<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 7 Benchmark</b>	Understand numbers, ways of representing numbers, relationships among numbers, and number systems.			
1	<ul style="list-style-type: none"> <li>Determine the absolute value of rational numbers.</li> </ul>	Appetizers 1 A; 1 (Number Concepts)		
2	<ul style="list-style-type: none"> <li>Illustrate the relationships among natural (i.e., counting) numbers, whole numbers, integers, rational and irrational numbers.</li> </ul>	Appetizers 1 A & C; 1 (Number Concepts)		
3	<ul style="list-style-type: none"> <li>Use properties of the real-numbers system to explain reasoning and to formulate and solve real-world problems.</li> </ul>			
4	<ul style="list-style-type: none"> <li>Read, write, and compare rational numbers in scientific notation (e.g., positive and negative powers of 10) with approximate numbers using scientific notation.</li> </ul>	Appetizers 1 D; 1 (Number Concepts)		
5	<ul style="list-style-type: none"> <li>Simplify numerical expressions using order of operations.</li> </ul>	Appetizers 2 A; 2 (Mathematical Relations)		

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<b>Grade 7 Benchmark</b>	Understand the meaning of operations and how they relate to one another.			
1	<ul style="list-style-type: none"> <li>Add, subtract, multiply, and divide rational numbers (e.g., integers, fractions, terminating decimals) and take positive rational numbers to whole-number powers.</li> </ul>	Appetizers 1 D; 6 A; 7 A; 8 A; 9 A; 11 A; 1 (Number Concepts); 6 (Addition); 7 (Subtraction); 8 (Multiplication); 9 (Division); 11 (Problem Solving)		
2	<ul style="list-style-type: none"> <li>Convert terminating decimals into reduced fractions.</li> </ul>	Appetizers 2 H; 2 (Mathematical Relations)		
3	<ul style="list-style-type: none"> <li>Calculate given percentages of quantities and use them to solve problems (e.g., discounts of sales, interest earned, tips, markups, commission, profit, simple interest.)</li> </ul>	Appetizers 1 C; 2 B; 1 (Number Concepts); 2 (Mathematical Relations)		
4	<ul style="list-style-type: none"> <li>Add and subtract fractions with unlike denominators.</li> </ul>	Appetizers 6 A; 7 A; 11 A; 6 (Addition); 7 (Subtraction); 11 (Problem Solving)		
5	<ul style="list-style-type: none"> <li>Multiply, divide, and simplify rational numbers by using exponent rules.</li> </ul>	Appetizers 1 D; 8 A; 9 A; 11 A; 1 (Number Concepts); 8 (Multiplication); 9 (Division); 11 (Problem Solving)		
6	<ul style="list-style-type: none"> <li>Understand the meaning of the absolute value of a number: <ul style="list-style-type: none"> <li>- interpret the absolute value as the distance of the number from zero on a number line</li> <li>- determine the absolute value of real numbers</li> </ul> </li> </ul>	Appetizers 2 F; 2 (Mathematical Relations)		
7	<ul style="list-style-type: none"> <li>Find square roots of perfect whole-number squares.</li> </ul>	Appetizers 1 G; 1 (Number Concepts)		
8	<ul style="list-style-type: none"> <li>Simplify and evaluate positive rational numbers raised to positive whole number powers.</li> </ul>	Appetizers 1 D; 1 (Number Concepts)		

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9	<ul style="list-style-type: none"> <li>Solve addition, subtraction, multiplication, and division problems that use positive and negative integers and combinations of these operations.</li> </ul>	Appetizers 2 D & G; 6 A; 7 A; 8 A; 9 A; 11 A; 2 (Mathematical Relations); 6 (Addition); 7 (Subtraction); 8 (Multiplication); 9 (Division); 11 (Problem Solving)		
<b>Grade 7 Benchmark</b>	Compute fluently and make reasonable estimates.			
1	<ul style="list-style-type: none"> <li>Use estimation to check reasonableness of results, and use this information to make predictions in situations involving rational numbers, <math>\pi</math>, and simple algebraic equations.</li> </ul>	Appetizers 1 B; 10 A & B; 13 A; 15 B; 1 (Number Concepts); 10 (Estimation); 13 (Reasonableness); 15 (Make Conjectures and Verify Conclusions)		
2	<ul style="list-style-type: none"> <li>Convert fractions to decimals and percents and use these representations in estimations, computations, and applications.</li> </ul>	Appetizers 1 C; 1 (Number Concepts)		
3	<ul style="list-style-type: none"> <li>Read, write, and compare rational numbers in scientific notation (e.g., positive and negative powers of 10) with approximate numbers using scientific notation.</li> </ul>	Appetizers 1 D; 1 (Number Concepts)		
4	<ul style="list-style-type: none"> <li>Calculate the percentage of increases and decreases of a quantity.</li> </ul>	Appetizers 2 B; 10 B; 11 A; 2 (Mathematical Relations); 10 (Estimation); 11 (Problem Solving)		
5	<ul style="list-style-type: none"> <li>Add and subtract fractions with unlike denominators.</li> </ul>	Appetizers 1 C; 6 A; 7 A; 11 A; 1 (Number Concepts); 6 (Addition); 7 (Subtraction); 11 (Problem Solving)		
6	<ul style="list-style-type: none"> <li>Use the inverse relationship between raising to a power and extracting the root of a perfect square integer.</li> </ul>	Appetizers 1 G; 1 (Number Concepts)		

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<b>ALGEBRA</b>				
<b>Content Standard</b>	Students will understand algebraic concepts and applications.			
<b>Grade 7 Benchmark</b>	Understand patterns, relations, and functions.			
<b>1</b>	<ul style="list-style-type: none"> <li>Identify and continue patterns presented in a variety of formats.</li> </ul>	Appetizers 2 B; 15 A; 2 (Mathematical Relations); 15 (Make Conjectures and Verify Conclusions)		
<b>2</b>	<ul style="list-style-type: none"> <li>Represent a variety of relationships using tables, graphs, verbal rules, and possible symbolic notation, and recognize the same general pattern presented in different representations.</li> </ul>	Appetizers 2 B, C, & H; 5 D; 12 B; 14 A; 15 B; 2 (Mathematical Relations); 5 (Probability/Statistics); 12 (Mathematical Representation); 14 (Mathematical Language, Representations, and Models); 15 (Make Conjectures and Verify Conclusions)		
<b>3</b>	<ul style="list-style-type: none"> <li>Simplify numerical expressions by applying properties of rational numbers, and justify the process used.</li> </ul>	Appetizers 1 E & G; 2 A & D; 12 A; 1 (Number Concepts); 2 (Mathematical Relations); 12 (Mathematical Representations)		
<b>4</b>	<ul style="list-style-type: none"> <li>Interpret and evaluate expressions involving integer powers and simple roots.</li> </ul>	Appetizers 1 D & G; 1 (Number Concepts)		
<b>5</b>	<ul style="list-style-type: none"> <li>Graph and interpret linear functions.</li> </ul>	Appetizers 1 D; 2 G & H; 1 (Number Concepts); 2 (Mathematical Relations)		
<b>6</b>	<ul style="list-style-type: none"> <li>Solve problems involving rate, average speed, distance, and time.</li> </ul>	Appetizers 2 B, C, & D; 12 A; 2 (Mathematical Relations); 12 (Mathematical Representation)		

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<b>Grade 7 Benchmark</b>	Represent and analyze mathematical situations and structures using algebraic symbols.			
<b>1</b>	<ul style="list-style-type: none"> <li>Write verbal expressions and sentences as algebraic expressions and equations:               <ul style="list-style-type: none"> <li>evaluate algebraic expressions</li> <li>solve simple linear equations</li> <li>graph and interpret results</li> </ul> </li> </ul>	<p><b>Appetizers 2 B; 2 (Mathematical Relations)</b></p> <p><b>Appetizers 2 D; 2 (Mathematical Relations)</b></p> <p><b>Appetizers 2 H; 12 B; 2 (Mathematical Relations); 12 (Mathematical Representation)</b></p>		
<b>2</b>	<ul style="list-style-type: none"> <li>Use variables and appropriate operations to write an expression, an equation, or an inequality that represents a verbal description.</li> </ul>	<b>Appetizers 2 B &amp; D; 12 B; 2 (Mathematical Relations); 12 (Mathematical Representation)</b>		
<b>3</b>	<ul style="list-style-type: none"> <li>Use the order of operations to evaluate algebraic expressions.</li> </ul>	<b>Appetizers 2 A; 15 B; 2 (Mathematical Relations); 15 (Make Conjectures and Verify Conclusions)</b>		
<b>4</b>	<ul style="list-style-type: none"> <li>Simplify numerical expressions by applying properties of rational numbers.</li> </ul>	<b>Appetizers 2 A; 12 A; 2 (Mathematical Relations); 12 (Mathematical Representation)</b>		
<b>5</b>	<ul style="list-style-type: none"> <li>Graph linear functions and identify slope as positive or negative.</li> </ul>	<b>Appetizers 2 H; 2 (Mathematical Relations)</b>		
<b>6</b>	<ul style="list-style-type: none"> <li>Use letters as variables in mathematical expressions to describe how one quantity changes when a related quantity changes.</li> </ul>	<b>Appetizers 2 B &amp; D; 12 B; 14 A; 2 (Mathematical Relations); 12 (Mathematical Representation); 14 (Mathematical Language, Representations, and Models)</b>		

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<b>Grade 7 Benchmark</b>	Use mathematical models to represent and understand quantitative relationships.			
1	<ul style="list-style-type: none"> <li>• <i>Create scale models and use them for dimensional drawings.</i></li> </ul>	Appetizers 2 B; 2 (Mathematical Relations)		
2	<ul style="list-style-type: none"> <li>• <i>Understand and use the coordinate plane to graph ordered pairs and linear equations.</i></li> </ul>	Appetizers 2 E; 2 (Mathematical Relations)		
3	<ul style="list-style-type: none"> <li>• <i>Select and use an appropriate model for a particular situation.</i></li> </ul>	Appetizers 2 G; 14 A; 2 (Mathematical Relations); 14 (Mathematical Language, Representations, and Models)		
<b>Grade 7 Benchmark</b>	Analyze changes in various contexts.			
1	<ul style="list-style-type: none"> <li>• <i>Use variables and appropriate operations to write an expression, an equation, and/or an inequality that represents a verbal description involving change.</i></li> </ul>	Appetizers 2 A, B, & D; 12 A; 2 (Mathematical Relations); 12 (Mathematical Representation)		
2	<ul style="list-style-type: none"> <li>• <i>Interpret and evaluate expressions involving integer powers and simple roots as they relate to change.</i></li> </ul>	Appetizers 1 D; 2 G; 1 (Number Concepts); 2 (Mathematical Relations)		
3	<ul style="list-style-type: none"> <li>• <i>Graph and interpret linear functions as they are used to solve problems.</i></li> </ul>	Appetizers 2 H; 12 B; 2 (Mathematical Relations); 12 (Mathematical Representation)		
4	<ul style="list-style-type: none"> <li>• <i>Solve two-step equations and inequalities with one variable over the rational numbers, interpret the solution or solutions in the context from which they arose, and verify the reasonableness of the results.</i></li> </ul>	Appetizers 12 A; 13 A; 15 B; 12 (Mathematical Representation); 13 (Reasonableness); 15 (Make Conjectures and Verify Conclusions)		

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	<b>GEOMETRY</b>			
<b>Content Standard</b>	Students will understand geometric concepts and applications.			
<b>Grade 7 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>Classify geometric figures as similar or congruent.</li> </ul>	Appetizers 3 A; 3 (Geometry)		
2	<ul style="list-style-type: none"> <li>Understand the concept of a constant (e.g., pi) and use the formulas for the circumference and area of a circle.</li> </ul>	Appetizers 3 E; 3 (Geometry)		
3	<ul style="list-style-type: none"> <li>Explain and use the Pythagorean theorem.</li> </ul>			
4	<ul style="list-style-type: none"> <li>Determine the radius, diameter, and circumference of a circle and explain their relationship.</li> </ul>	Appetizers 3 E; 3 (Geometry)		
5	<ul style="list-style-type: none"> <li>Use properties to classify solids including pyramids, cones, prisms, and cylinders.</li> </ul>	Appetizers 3 A; 3 (Geometry)		
<b>Grade 7 Benchmark</b>	Specify locations and describe spatial relationships using coordinate geometry and other representational systems.			
1	<ul style="list-style-type: none"> <li>Construct and use coordinate graphs to plot simple figures, determine lengths and areas related to them, and determine the image under translations and reflections.</li> </ul>	Appetizers 2 E, G, & H; 3 B; 2 (Mathematical Relations); 3 (Geometry)		
<b>Grade 7 Benchmark</b>	Apply transformations and use symmetry to analyze mathematical situations.			
1	<ul style="list-style-type: none"> <li>Determine how perimeter and area are affected by changes of scale.</li> </ul>	Appetizers 2 B & H; 2 (Mathematical Relations)		

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<b>Grade 7 Benchmark</b>	Use visualization, spatial reasoning, and geometric modeling to solve problems.			
1	<ul style="list-style-type: none"> <li>• Compute the perimeter and area of common geometric shapes and use the results to find measures of less common objects.</li> </ul>	<b>Appetizers 2 H; 2 (Mathematical Relations)</b>		
2	<ul style="list-style-type: none"> <li>• Identify and describe the properties of two-dimensional figures:               <ul style="list-style-type: none"> <li>- identify angles as vertical, adjacent, complementary, or supplementary and provide descriptions of these terms</li> <li>- use the properties of complementary and supplementary angles and the sum of the angles of a triangle to solve problems involving an unknown angle</li> <li>- draw quadrilaterals and triangles from given information</li> </ul> </li> </ul>	<b>Appetizers 3 D; 3 (Geometry)</b>  <b>Appetizers 3 D; 3 (Geometry)</b>  <b>Appetizers 3 A &amp; E; 3 (Geometry)</b>		
<b>MEASUREMENT</b>				
<b>Content Standard</b>	Students will understand measurement systems and applications.			
<b>Grade 7 Benchmark</b>	Understand measurable attributes of objects and the units, systems, and process of measurement.			
1	<ul style="list-style-type: none"> <li>• Choose appropriate units of measure and ratios to recognize new equivalences (e.g., 1 square yard equals 9 square feet) to solve problems.</li> </ul>	<b>Appetizers 4 A, B, &amp; C; 4 (Measurement)</b>		
2	<ul style="list-style-type: none"> <li>• Select and use the appropriate size and type of unit for a given measurement situation.</li> </ul>	<b>Appetizers 4 E; 4 (Measurement)</b>		
3	<ul style="list-style-type: none"> <li>• Compare masses, weights, capacities, geometric measures, times, and temperatures within measurement systems.</li> </ul>	<b>Appetizers 4 A, B, C, D, &amp; E; 4 (Measurement)</b>		

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4	<ul style="list-style-type: none"> <li>Approximate the relationship between standard and metric measurement systems (e.g., inches and centimeters, pounds and kilograms, quarts and liters).</li> </ul>	Appetizers 4 A, B, & C; 4 (Measurement)		
5	<ul style="list-style-type: none"> <li>Use measures expressed as rates and measures expressed as products to solve problems, check the units of the solutions, and analyze the reasonableness of the answer.</li> </ul>	Appetizers 4 A, B, C, D, & E; 4 (Measurement)		
<b>Grade 7 Benchmark</b>	Apply appropriate techniques, tools, and formulas to determine measurements.			
1	<ul style="list-style-type: none"> <li>Apply strategies and formulas to find missing angle measurements in triangles and quadrilaterals.</li> </ul>	Appetizers 3 D; 3 (Geometry)		
2	<ul style="list-style-type: none"> <li>Select and use formulas to determine the circumference of circles and the area of triangles, parallelograms, trapezoids, and circles.</li> </ul>	Appetizers 4 D & E; 4 (Measurement)		
3	<ul style="list-style-type: none"> <li>Solve problems involving scale factors, ratios, and proportions.</li> </ul>	Appetizers 2 B & C; 10 B; 2 (Mathematical Relations); 10 (Estimation)		
<b>DATA ANALYSIS AND PROBABILITY</b>				
<b>Content Standard</b>	Students will understand how to formulate questions, analyze data, and determine probabilities.			
<b>Grade 7 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>Describe how data representations influences interpretation.</li> </ul>	Appetizers 2 H; 5 D; 12 B; 15 B; 2 (Mathematical Relations); 5 (Probability/Statistics); 12 (Mathematical Representation); 15 (Make Conjectures and Verify Conclusions)		

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2	<ul style="list-style-type: none"> <li>Select and use appropriate representation for presenting collected data and justify the selection.</li> </ul>	Appetizers 2 H; 5 D; 12 B; 15 B; 2 (Mathematical Relations); 5 (Probability/Statistics); 12 (Mathematical Representation); 15 (Make Conjectures and Verify Conclusions)		
3	<ul style="list-style-type: none"> <li>Use measures of central tendency and spread to describe a set of data.</li> </ul>	Appetizers 5 E; 5 (Probability/Statistics)		
4	<ul style="list-style-type: none"> <li>Choose between median and mode to describe a set of data and justify the choice for a particular situation.</li> </ul>	Appetizers 5 E; 5 (Probability/Statistics)		
5	<ul style="list-style-type: none"> <li>Determine the quartiles of a data set.</li> </ul>	Appetizers 5 E; 5 (Probability/Statistics)		
6	<ul style="list-style-type: none"> <li>Identify ordered pairs of data from a graph and interpret the data in terms of the situation depicted by the graph.</li> </ul>	Appetizers 2 E & H; 2 (Mathematical Relations)		
7	<ul style="list-style-type: none"> <li>Use various scales and formats to display the same data set.</li> </ul>	Appetizers 2 H; 5 D; 2 (Mathematical Relations); 5 (Probability/Statistics)		
8	<ul style="list-style-type: none"> <li>Identify and explain the misleading representations of data.</li> </ul>	Appetizers 5 C; 5 (Probability/Statistics)		
9	<ul style="list-style-type: none"> <li>Collect, organize, and represent data sets that have one or more variables and identify relationships among variables within a data set.</li> </ul>	Appetizers 2 H; 5 D; 12 B; 2 (Mathematical Relations); 5 (Probability/Statistics); 12 (Mathematical Representation)		
10	<ul style="list-style-type: none"> <li>Compute the minimum, lower quartile, median, upper quartile, and maximum of a data set.</li> </ul>	Appetizers 5 E; 5 (Probability/Statistics)		
11	<ul style="list-style-type: none"> <li>Identify and explain the effects of scale and/or interval changes on graphs of whole number data sets.</li> </ul>	Appetizers 2 H; 2 (Mathematical Relations)		

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12	<ul style="list-style-type: none"> <li>Use and explain sampling techniques (e.g., observations, surveys, and random sampling) for gathering data.</li> </ul>	Appetizers 5 B, C, & D; 11 D; 5 (Probability/Statistics); 11 (Problem Solving)		
13	<ul style="list-style-type: none"> <li>Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, and selecting, collecting, and displaying appropriate data to address the problem.</li> </ul>	Appetizers 2 H; 11 A, B, C, & D; 2 (Mathematical Relations); 11 (Problem Solving)		
<b>Grade 7 Benchmark</b>	Select and use appropriate statistical methods to analyze data.			
1	<ul style="list-style-type: none"> <li>Choose and justify appropriate measures of central tendencies (e.g., mean, median, mode, range) to describe given or derived data.</li> </ul>	Appetizers 5 E; 5 (Probability/Statistics)		
2	<ul style="list-style-type: none"> <li>Know various ways to display data sets (e.g., stem and leaf plot, box and whisker plot, scatter plots) and use these forms to display a single set of data or to compare two sets of data.</li> </ul>	Appetizers 2 H; 5 D; 12 B; 14 A; 2 (Mathematical Relations); 5 (Probability/Statistics); 12 (Mathematical Representation); 14 (Mathematical Language, Representations, and Models)		
3	<ul style="list-style-type: none"> <li>Use the analysis of data to make convincing arguments.</li> </ul>	Appetizers 2 H; 5 D; 12 B; 14 A; 2 (Mathematical Relations); 5 (Probability/Statistics); 12 (Mathematical Representation); 14 (Mathematical Language, Representations, and Models)		
4	<ul style="list-style-type: none"> <li>Use appropriate technology to gather and display data sets and identify the relationships that exist among variables within the data set.</li> </ul>			

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5	<ul style="list-style-type: none"> <li>Use data samples of a population and describe the characteristics and limitations of the sample.</li> </ul>	Appetizers 5 C; 5 (Probability/Statistics)		
6	<ul style="list-style-type: none"> <li>Identify data that represent sampling errors and explain why the sample and the display might be biased.</li> </ul>	Appetizers 5 C; 12 B; 5 (Probability/Statistics); 12 (Mathematical Representation)		
7	<ul style="list-style-type: none"> <li>Identify claims based on statistical data and evaluate the validity of the claims.</li> </ul>	Appetizers 5 C & D; 11 D; 5 (Probability/Statistics); 11 (Problem Solving)		
<b>Grade 7 Benchmark</b>	Develop and evaluate inferences and predictions that are based on data.			
1	<ul style="list-style-type: none"> <li>Formulate and justify mathematical conjectures based on data and a general description of the mathematical question or problem posed.</li> </ul>	Appetizers 2 H; 5 D; 12 B; 15 A; 2 (Mathematical Relations); 5 (Probability/Statistics); 12 (Mathematical Representation); 15 (Make Conjectures and Verify Conclusions)		
2	<ul style="list-style-type: none"> <li>Analyze data to make accurate inferences, predictions, and to develop convincing arguments from data displayed in a variety of forms.</li> </ul>	Appetizers 2 H; 5 D; 12 B; 2 (Mathematical Relations); 5 (Probability/Statistics); 12 (Mathematical Representation)		
3	<ul style="list-style-type: none"> <li>Approximate a line of best fit for a data set in a scatter plot form and make predictions using the simple equation of that line.</li> </ul>	Appetizers 5 D; 12 B; 5 (Probability/Statistics); 12 (Mathematical Representation)		

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<b>Grade 7 Benchmark</b>	Understand and apply basic concepts of probability.			
1	<ul style="list-style-type: none"> <li>Determine the probability of a compound event composed of two independent events.</li> </ul>	Appetizers 5 C; 11 D; 5 (Probability/Statistics); 11 (Problem Solving)		
2	<ul style="list-style-type: none"> <li>Identify examples of events having the probability of one or zero.</li> </ul>	Appetizers 5 B & C; 11 D; 5 (Probability/Statistics); 11 (Problem Solving)		
3	<ul style="list-style-type: none"> <li>Describe the probability of events using fractions, decimals, and percents.</li> </ul>	Appetizers 5 B; 5 (Probability/Statistics)		
4	<ul style="list-style-type: none"> <li>Express probability as a fraction, zero, or one.</li> </ul>	Appetizers 5 B; 5 (Probability/Statistics)		
5	<ul style="list-style-type: none"> <li>Use probability to generate convincing arguments, draw conclusions, and make decisions in a variety of situations.</li> </ul>	Appetizers 5 C; 11 D; 15 A; 5 (Probability/Statistics); 11 (Problem Solving); 15 (Make Conjectures and Verify Conclusions)		
6	<ul style="list-style-type: none"> <li>Make predictions based on theoretical probabilities of compound events.</li> </ul>	Appetizers 5 C; 11 D; 15 A; 5 (Probability/Statistics); 11 (Problem Solving); 15 (Make Conjectures and Verify Conclusions)		
7	<ul style="list-style-type: none"> <li>Determine the probability of a simple event or a compound event composed of a simple, independent events.</li> </ul>			