APS Eighth Grade Math District Benchmark Assessment NM Math Standards Alignment

SEVENTH GRADE NM STANDARDS
Strand: NUMBER AND OPERATIONS
Standard: Students will understand numerical concepts and mathematical operations.

5-8 Benchmark N.1: Understand numbers, ways of representing numbers, relationships among numbers, and number systems.

Performance Standards		Fall Assessment (41 questions)	Winter Assessment (39 questions)	Spring Assessment (38 questions)
7.N.1.1	Determine the absolute value of rational numbers.			
7.N.1.2	Illustrate the relationships among natural (i.e., counting) numbers, whole numbers, integers, rational and irrational numbers.			
7.N.1.3	Use properties of the real-number system to explain reasoning and to formulate and solve real-world problems.	3 Questions		
7.N.1.4	Read, write, and compare rational numbers in scientific notation (e.g., positive and negative powers of 10) with approximate numbers using scientific notation.			
7.N.1.5	Simplify numerical expressions using order of operations.			
5-8 Benchmark N.2: Understand the meaning of operations and how they relate to one another.				
7.N.2.1	Add, subtract, multiply, and divide rational numbers (e.g., integers, fractions, and terminating decimals) and take positive rational numbers to whole-number powers.	8 Questions		
7.N.2.2	Convert terminating decimals into reduced fractions.			
7.N.2.3	Calculate given percentages of quantities and use them to solve problems (e.g., discounts of sales, interest earned, tips, markups, commission, profit, simple interest).	2 Questions		
7.N.2.4	Add and subtract fractions with unlike denominators.			
7.N.2.5	Multiply, divide, and simplify rational numbers by using exponent rules.			
7.N.2.6	Understand the meaning of the absolute value of a number: a. interpret the absolute value as the distance of the number from zero on a number line b. determine the absolute value of real numbers			
7.N.2.7	Find square roots of perfect whole-number squares.	1 Question		

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Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
7.N.2.8	Simplify and evaluate positive rational numbers raised to positive whole number powers.	2 Questions	2 Questions	
7.N.2.9	Solve addition, subtraction, multiplication, and division problems that use positive and negative integers and combinations of these operations.			
5-8 Benchmark N.3: Compute fluently and make reasonable estimates.				
7.N.3.1	Use estimation to check reasonableness of results, and use this information to make predictions in situations involving rational numbers, pi, and simple algebraic equations.			
7.N.3.2	Convert fractions to decimals and percents and use these representations in estimations, computations, and applications.			
7.N.3.3	Read, write, and compare rational numbers in scientific notation (e.g., positive and negative powers of 10) with approximate numbers using scientific notation.			
7.N.3.4	Calculate the percentage of increases and decreases of a quantity.			
7.N.3.5	Add and subtract fractions with unlike denominators.			
7.N.3.6	Use the inverse relationship between raising to a power and extracting the root of a perfect square integer.			
Strand: ALGEBRA **Standard:** Students will understand algebraic concepts and applications.				
5-8 Benchmark A.1: Understand patterns, relations, and functions.				
7.A.1.1	Identify and continue patterns presented in a variety of formats.	1 Question		
7.A.1.2	Represent a variety of relationships using tables, graphs, verbal rules, and possible symbolic notation, and recognize the same general pattern presented in different representations.	2 Questions		
7.A.1.3	Simplify numerical expressions by applying properties of rational numbers, and justify the process used.	1 Question		
7.A.1.4	Interpret and evaluate expressions involving integer powers and simple roots.			
7.A.1.5	Graph and interpret linear functions.			

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Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
7.A.1.6	Solve problems involving rate, average speed, distance, and time.	1 Question		
5-8 Benchmark A.2: Represent and analyze mathematical situations and structures using algebraic symbols.				
7.A.2.1	Write verbal expressions and sentences as algebraic expressions and equations: a. evaluate algebraic expressions b. solve simple linear equations c. graph and interpret results	3 Questions		
7.A.2.2	Use variables and appropriate operations to write an expression, an equation, or an inequality that represents a verbal description.	1 Question		
7.A.2.3	Use the order of operations to evaluate algebraic expressions.			
7.A.2.4	Simplify numerical expressions by applying properties of rational numbers.			
7.A.2.5	Graph linear functions and identify slope as positive or negative.			
7.A.2.6	Use letters as variables in mathematical expressions to describe how one quantity changes when a related quantity changes.	1 Question		
5-8 Benchmark A.3: Use mathematical models to represent and understand quantitative relationships.				
7.A.3.1	Create scale models and use them for dimensional drawings.			
7.A.3.2	Understand and use the coordinate plane to graph ordered pairs and linear equations.	1 Question		
7.A.3.3	Select and use an appropriate model for a particular situation.			
5-8 Benchmark A.4: Analyze changes in various contexts.				
7.A.4.1	Use variables and appropriate operations to write an expression, an equation, and/or an inequality that represents a verbal description involving change.	1 Question		
7.A.4.2	Interpret and evaluate expressions involving integer powers and simple roots as they relate to change.			

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Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
7.A.4.3	Graph and interpret linear functions as they are used to solve problems.			
7.A.4.4	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.			
Strand: GEOMETRY **Standard:** Students will understand geometric concepts and applications.				
5-8 Benchmark G.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematics arguments about geometric relationships.				
7.G.1.1	Classify geometric figures as similar or congruent.			
7.G.1.2	Understand the concept of a constant (e.g., pi) and use the formulas for the circumference and area of a circle.			
7.G.1.3	Explain and use the Pythagorean theorem.			
7.G.1.4	Determine the radius, diameter, and circumference of a circle and explain their relationship.	1 Question		
7.G.1.5	Use properties to classify solids including pyramids, cones, prisms, and cylinders.			
5-8 Benchmark G.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems.				
7.G.2.1	Construct and use coordinate graphs to plot simple figures, determine lengths and areas related to them, and determine the image under translations and reflections.			
5-8 Benchmark G.3: Apply transformations and use symmetry to analyze mathematical situations.				
7.G.3.1	Determine how perimeter and area are affected by changes of scale.	1 Question		
5-8 Benchmark G.4: Use visualization, spatial reasoning, and geometric modeling to solve problems.				
7.G.4.1	Compute the perimeter and area of common geometric shapes and use the results to find measures of less common objects.			

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Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
7.G.4.2	Identify and describe the properties of two-dimensional figures: a. identify angles as vertical, adjacent, complementary, or supplementary and provide descriptions of these terms b. use the properties of complementary and supplementary angles and the sum of the angles of a triangle to solve problems involving an unknown angle c. draw quadrilaterals and triangles from given information	1 Question		
Strand: MEASUREMENT **Standard:** Students will understand measurement systems and applications.				
5-8 Benchmark M.1: Understand measurable attributes of objects and the units, systems, and processes of measurement.				
7.M.1.1	Choose appropriate units of measure and ratios to recognize new equivalences (e.g., 1 square yard equals 9 square feet) to solve problems.	1 Question		
7.M.1.2	Select and use the appropriate size and type of unit for a given measurement situation.	1 Question		
7.M.1.3	Compare masses, weights, capacities, geometric measures, times, and temperatures within measurement systems.			
7.M.1.4	Approximate the relationship between standard and metric measurement systems (e.g., inches and centimeters, pounds and kilograms, quarts and liters).			
7.M.1.5	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.			
5-8 Benchmark M.2: Apply appropriate techniques, tools, and formulas to determine measurements.				
7.M.2.1	Apply strategies and formulas to find missing angle measurements in triangles and quadrilaterals.			
7.M.2.2	Select and use formulas to determine the circumference of circles and the area of triangles, parallelograms, trapezoids, and circles.	1 Question		
7.M.2.3	Solve problems involving scale factors, ratios, and proportions.	2 Questions		

APS Eighth Grade Math District Benchmark Assessment NM Math Standards Alignment

Strand: DATA ANALYSIS AND PROBABILITY
Standard: Students will understand how to formulate questions, analyze data, and determine probabilities.

5-8 Benchmark D.1: Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.

Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
7.D.1.1	Describe how data representations influence interpretation.			
7.D.1.2	Select and use appropriate representation for presenting collected data and justify the selection.			
7.D.1.3	Use measures of central tendency and spread to describe a set of data.	1 Question		
7.D.1.4	Choose between median and mode to describe a set of data and justify the choice for a particular situation.			
7.D.1.5	Determine the quartiles of a data set.			
7.D.1.6	Identify ordered pairs of data from a graph and interpret the data in terms of the situation depicted by the graph.			
7.D.1.7	Use various scales and formats to display the same data set.			
7.D.1.8	Identify and explain the misleading representations of data.			
7.D.1.9	Collect, organize, and represent data sets that have one or more variables and identify relationships among variables within a data set.			
7.D.1.10	Compute the minimum, lower quartile, median, upper quartile, and maximum of a data set.			
7.D.1.11	Identify and explain the effects of scale and/or interval changes on graphs of whole number data sets.	1 Question		
7.D.1.12	Use and explain sampling techniques (e.g., observations, surveys, and random sampling) for gathering data.			
7.D.1.13	Analyze problems by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, and selecting, collecting, and displaying appropriate data to address the problem.			

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Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
5-8 Benchmark D.2: Select and use appropriate statistical methods to analyze data.				
7.D.2.1	Choose and justify appropriate measures of central tendencies (e.g., mean, median, mode, range) to describe given or derived data.	1 Question		
7.D.2.2	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.			
7.D.2.3	Use the analysis of data to make convincing arguments.			
7.D.2.4	Use appropriate technology to gather and display data sets and identify the relationships that exist among variables within the data set.			
7.D.2.5	Use data samples of a population and describe the characteristics and limitations of the sample.			
7.D.2.6	Identify data that represent sampling errors and explain why the sample and the display might be biased.			
7.D.2.7	Identify claims based on statistical data and evaluate the validity of the claims.			
5-8 Benchmark D.3: Develop and evaluate inferences and predictions that are based on data.				
7.D.3.1	Formulate and justify mathematical conjectures based on data and a general description of the mathematical question or problem posed.			
7.D.3.2	Analyze data to make accurate inferences, predictions, and to develop convincing arguments from data displayed in a variety of forms.	2 Questions		
7.D.3.3	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.			
5-8 Benchmark D.4: Understand and apply basic concepts of probability.				
7.D.4.1	Determine the probability of a compound event composed of two independent events.			
7.D.4.2	Identify examples of events having the probability of one or zero.			
7.D.4.3	Describe the probability of events using fractions, decimals, and percents.			

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Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
7.D.4.4	Express probability as a fraction, zero, or one.			
7.D.4.5	Use probability to generate convincing arguments, draw conclusions, and make decisions in a variety of situations.			
7.D.4.6	Make predictions based on theoretical probabilities of compound events.			
7.D.4.7	Determine the probability of a simple event or a compound event composed of simple, independent events.			

EIGHTH GRADE NM STANDARDS
Strand: NUMBER AND OPERATIONS
Standard: Students will understand numerical concepts and mathematical operations.

5-8 Benchmark N.1: Understand numbers, ways of representing numbers, relationships among numbers, and number systems.

Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
8.N.1.1	Sort numbers by their properties (e.g., prime, composite, square, square root).			
8.N.1.2	Demonstrate the magnitude of rational numbers (e.g., trillions to millions).			
5-8 Benchmark N.2: Understand the meaning of operations and how they relate to one another.				
8.N.2.1	Use real number properties (e.g., commutative, associative, distributive) to perform various computational procedures.		3 Questions	3 Questions
8.N.2.2	Perform arithmetic operations and their inverses (e.g., addition/subtraction, multiplication/division, square roots of perfect squares, and cube roots of perfect cubes) on real numbers.		2 Questions	
8.N.2.3	Find roots of real numbers using calculators.			
5-8 Benchmark N.3: Compute fluently and make reasonable estimates.				
8.N.3.1	Formulate algebraic expressions that include real numbers to describe and solve real-world problems.		1 Question	2 Questions
8.N.3.2	Use a variety of computational methods to estimate quantities involving real numbers.		1 Question	
8.N.3.3	Differentiate between rational and irrational numbers.			
8.N.3.4	Use real number properties to perform various computational procedures and explain how they were used.		1 Question	
8.N.3.5	Perform and explain computations with rational numbers, pi, and first-degree algebraic expressions in one variable in a variety of situations.			
8.N.3.6	Select and use appropriate forms of rational numbers to solve real-world problems including those involving proportional relationships.			

APS Eighth Grade Math District Benchmark Assessment NM Math Standards Alignment

Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
8.N.3.7	Approximate, mentally and with calculators, the value of irrational numbers as they arise from problem situations.			
8.N.3.8	Express numbers in scientific notation (including negative exponents) in appropriate problem situations using a calculator.		1 Question	1 Question
8.N.3.9	Estimate answers and use formulas to solve application problems involving surface area and volume.			
Strand: ALGEBRA **Standard:** Students will understand algebraic concepts and applications.				
5-8 Benchmark A.1: Understand patterns, relations, and functions.				
8.A.1.1	Move between numerical, tabular, and graphical representations of linear relationships.		2 Questions	
8.A.1.2	Use variables to generalize patterns and information presented in tables, charts, and graphs: a. graph linear functions noting that the vertical change per unit of horizontal change (the slope of the graph) is always the same b. plot the values of quantities whose ratios are always the same, fit a line to the plot, and understand that the slope of the line equals the quantities		2 Questions	1 Question
5-8 Benchmark A.2: Represent and analyze mathematical situations and structures using algebraic symbols.				
8.A.2.1	Demonstrate the difference between an equation and an expression.			
8.A.2.2	Solve two-step linear equations and inequalities in one variable with rational solutions.			3 Questions
8.A.2.3	Evaluate formulas using substitution.		3 Questions	1 Question
8.A.2.4	Demonstrate understanding of the relationships between ratios, proportions, and percents and solve for a missing term in a proportion.			
8.A.2.5	Graph solution sets of linear equations in two variables on the coordinate plane.			

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Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
8.A.2.6	Formulate and solve problems involving simple linear relationships, find percents of a given number, variable situations, and unknown quantities.			3 Questions
8.A.2.7	Use symbols, variables, expressions, inequalities, equations, and simple systems of equations to represent problem situations that involve variables or unknown quantities.			3 Questions
5-8 Benchmark A.3: Use mathematical models to represent and understand quantitative relationships.				
8.A.3.1	Generate different representations to model a specific numerical relationship given one representation of data (e.g., a table, a graph, an equation, a verbal description).		1 Question	
5-8 Benchmark A.4: Analyze changes in various contexts.				
8.A.4.1	Use graphs, tables, and algebraic representations to make predictions and solve problems that involve change.		1 Question	2 Questions
8.A.4.2	Estimate, find, and justify solutions to problems that involve change using tables, graphs, and algebraic expressions.		1 Question	1 Question
8.A.4.3	Use appropriate problem-solving strategies (e.g., drawing a picture, looking for a pattern, systematic guessing and checking, acting it out, making a table or graph, working a simpler problem, writing an algebraic expression or working backward) to solve problems that involve change.		2 Questions	
8.A.4.4	Solve multi-step problems that involve changes in rate, average speed, distance, and time.			
8.A.4.5	Analyze problems that involve change by identifying relationships, distinguishing relevant from irrelevant information, identifying missing information, sequencing, and observing patterns.			
8.A.4.6	Generalize a pattern of change using algebra and show the relationship among the equation, graph, and table of values.		6 Questions	1 Question
8.A.4.7	Recognize the same general pattern of change presented in different representations.			

APS Eighth Grade Math District Benchmark Assessment NM Math Standards Alignment

Strand: GEOMETRY
Standard: Students will understand geometric concepts and applications.

5-8 Benchmark G.1: Analyze characteristics and properties of two- and three-dimensional geometric shapes and develop mathematics arguments about geometric relationships.

Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
8.G.1.1	Recognize, classify, and discuss properties of all geometric figures including point, line, and plane.			
8.G.1.2	Identify arc, chord, and semicircle and explain their attributes.			
8.G.1.3	Use the Pythagorean theorem and its converse to find the missing side of a right triangle and the lengths of the other line segments.		3 Questions	1 Question
5-8 Benchmark G.2: Specify locations and describe spatial relationships using coordinate geometry and other representational systems.				
8.G.2.1	Represent, formulate, and solve distance and geometry problems using the language and symbols of algebra and the coordinate plane and space (e.g., ordered triplets).			1 Question
5-8 Benchmark G.3: Apply transformations and use symmetry to analyze mathematical situations.				
8.G.3.1	Describe the symmetry of three-dimensional figures.			
8.G.3.2	Describe and perform single and multiple transformations that include rotation, reflection, translation, and dilation (i.e., shrink or magnify) to two-dimensional figures.			2 Questions
5-8 Benchmark G.4: Use visualization, spatial reasoning, and geometric modeling to solve problems.				
8.G.4.1	Understand angle relationships formed by parallel lines cut by a transversal.			
8.G.4.2	Recognize and apply properties of corresponding parts of similar and congruent triangles and quadrilaterals.			2 Questions
8.G.4.3	Represent and solve problems relating to size, shape, area, and volume using geometric models.			
8.G.4.4	Develop and use formulas for area, perimeter, circumference, and volume.		4 Questions	3 Questions

APS Eighth Grade Math District Benchmark Assessment NM Math Standards Alignment

Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
8.G.4.5	Construct two-dimensional patterns for three-dimensional models (e.g., cylinders, prisms, cones).		1 Question	1 Question
Strand: MEASUREMENT **Standard:** Students will understand measurement systems and applications.				
5-8 Benchmark M.1: Understand measurable attributes of objects and the units, systems, and processes of measurement.				
8.M.1.1	Understand the concept of volume and use the appropriate units in common measuring systems (e.g., cubic centimeter, cubic inch, cubic yard) to compute the volume of rectangular solids.			
8.M.1.2	Use changes in measurement units (e.g., square inches, cubic feet) to perform conversions from one-, two-, and three-dimensional shapes.			
5-8 Benchmark M.2: Apply appropriate techniques, tools, and formulas to determine measurements.				
8.M.2.1	Use ratios and proportions to measure hard-to-measure objects.			
8.M.2.2	Use estimation to solve problems.			
8.M.2.3	Use proportional relationships in similar shapes to find missing measurements.			
8.M.2.4	Apply strategies to determine the surface area and volume of prisms, pyramids, and cylinders.		2 Questions	1 Question
8.M.2.5	Perform conversions with multiple terms between metric and U.S. standard measurement systems.			
8.M.2.6	Estimate volume in cubic units.			
8.M.2.7	Solve simple problems involving rates and derived measurements for such properties as velocity and density.			

APS Eighth Grade Math District Benchmark Assessment NM Math Standards Alignment

Strand: DATA ANALYSIS AND PROBABILITY
Standard: Students will understand how to formulate questions, analyze data, and determine probabilities.

5-8 Benchmark D.1: Formulate questions that can be addressed with data and collect, organize, and display relevant data to answer them.

Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
8.D.1.1	Represent two numerical variables on a plot, describe how the data points are distributed, and identify relationships that exist between the two variables.			
8.D.1.2	Generate, organize, and interpret real numbers in a variety of situations.			
8.D.1.3	Organize, analyze, and display appropriate quantitative and qualitative data to address specific questions including: a. frequency distributions b. plots c. histograms d. bar, line, and pie graphs e. diagram and pictorial displays f. charts and tables			1 Question
8.D.1.4	Select the appropriate measure of central tendency to describe a set of data for a particular problem situation.			1 Question
8.D.1.5	Simulate an event selecting and using different models.			
8.D.1.6	Develop an appropriate strategy using a variety of data from surveys, samplings, estimations, and inferences to address a specific problem.			
5-8 Benchmark D.2: Select and use appropriate statistical methods to analyze data.				
8.D.2.1	Use changes in scales, intervals, or categories to help support a particular interpretation of data.			1 Question
8.D.2.2	Generate, organize, and interpret real number and other data in a variety of situations.			
8.D.2.3	Analyze data to make decisions and to develop convincing arguments from data displayed in a variety of formats including: plots distributions graphs scatter plots diagrams pictorial displays charts and tables Venn diagrams			1 Question

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Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
8.D.2.4	Interpret and analyze data from graphical representations and draw simple conclusions (e.g., line of best fit).			1 Question
8.D.2.5	Evaluate and defend the reasonableness of conclusions drawn from data analysis.			
8.D.2.6	Use appropriate central tendency and spread as a means for effective decision-making in analyzing data and outliers.			
8.D.2.7	Identify simple graphic misrepresentations and distortions of sets of data (e.g., unequal interval sizes, omission of parts of axis range, scaling).			
8.D.2.8	Use appropriate technology to display data as lists, tables, matrices, graphs, and plots and to analyze the relationships of variables in the data displayed.			
5-8 Benchmark D.3: Develop and evaluate inferences and predictions that are based on data.				
8.D.3.1	Describe how changes in scale, intervals, or categories influence arguments for a particular interpretation of the data.			
8.D.3.2	Describe how reader bias, measurement errors, and display distortion can affect the interpretation of data, predictions, and inferences based on data.			
8.D.3.3	Conduct simple experiments and/or simulations, record results in charts, tables, or graphs, and use the results to draw conclusions and make predictions.			
8.D.3.4	Compare expected results with experimental results and information used in predictions and inferences.			
5-8 Benchmark D.4: Understand and apply basic concepts of probability.				
8.D.4.1	Calculate the odds of a desired outcome in a simple experiment.			
8.D.4.2	Design and use an appropriate simulation to estimate the probability of a real-world event (e.g., disk toss, cube toss).			
8.D.4.3	Explain the relationship between probability and odds and calculate the odds of a desired outcome in a simple experiment.			
8.D.4.4	Use theoretical or experimental probability to make predictions about real-world events.			1 Question

APS Eighth Grade Math District Benchmark Assessment NM Math Standards Alignment

Performance Standards		Fall Assessment	Winter Assessment	Spring Assessment
8.D.4.5	Use probability to generate convincing arguments, draw conclusions, and make decisions in a variety of situations.			
8.D.4.6	Understand that the probability of two unrelated events occurring is the sum of the two individual possibilities and that the probability of one event following another, in independent trials, is the product of the two probabilities.			

Summary of the Eighth Grade District Benchmark Assessment and Standards Alignment

Fall Middle School District Benchmark Assessment (DBA) = 41 Questions

Key= NM State Math Standard (number of items on the DBA)
Strand: Number and Operations = 16 questions
7.N.1.3 (3); 7.N.2.1 (8); 7.N.2.3 (2); 7.N.2.7 (1); 7.N.2.8 (2)
Strand: Algebra = 12 questions
7.A.1.1 (1); 7.A.1.2 (2); 7.A.1.3 (1); 7.A.1.6 (1); 7.A.2.1 (3); 7.A.2.2 (1); 7.A.2.6 (1); 7.A.3.2 (1); 7.A.4.1 (1)
Strand: Geometry = 3 questions
7.G.1.4 (1); 7.G.3.1 (1); 7.G.4.2 (1)
Strand: Measurement = 5 questions
7.M.1.1 (1); 7.M.1.2 (1); 7.M.2.2 (1); 7.M.2.3 (2)
Strand: Data and Probability = 5 questions
7.D.1.3 (1); 7.D.1.11 (1); 7.D.2.1 (1); 7.D.3.2 (2)

Winter Middle School District Benchmark Assessment (DBA) = 39 Questions

Key= NM State Math Standard (number of items on the DBA)
Strand: Number and Operations = 11 questions
7.N.2.8 (2); 8.N.2.1 (3); 8.N.2.2 (2); 8.N.3.1 (1); 8.N.3.2 (1); 8.N.3.4 (1); 8.N.3.8 (1)
Strand: Algebra = 18 questions
8.A.1.1 (2); 8.A.1.2 (2); 8.A.2.3 (3); 8.A.3.1 (1); 8.A.4.1 (1); 8.A.4.2 (1); 8.A.4.3 (2); 8.A.4.6 (6)
Strand: Geometry = 8 questions
8.G.1.3 (3); 8.G.4.4 (4); 8.G.4.5 (1)
Strand: Measurement = 2 questions
8.M.2.4 (2)
Strand: Data and Probability = 0 questions

Spring Middle School District Benchmark Assessment (DBA) = 38 Questions

Key= NM State Math Standard (number of items on the DBA)
Strand: Number and Operations = 6 questions
8.N.2.1 (3); 8.N.3.1 (2); 8.N.3.8 (1)
Strand: Algebra = 15 questions
8.A.1.2 (1); 8.A.2.2 (3); 8.A.2.3 (1); 8.A.2.6 (3); 8.A.2.7 (3); 8.A.4.1 (2); 8.A.4.2 (1); 8.A.4.6 (1)
Strand: Geometry = 10 questions
8.G.1.3 (1); 8.G.2.1 (1); 8.G.3.2 (2); 8.G.4.2 (2); 8.G.4.4 (3); 8.G.4.5 (1)
Strand: Measurement = 1 questions
8.M.2.4 (1)
Strand: Data and Probability = 6 questions
8.D.1.3 (1); 8.D.1.4 (1); 8.D.2.1 (1); 8.D.2.3 (1); 8.D.2.4 (1); 8.D.4.4 (1)