



DCPS Grade 8 Lesson Order 2010-2011

Lesson Count	I CAN Learn® Lesson #	I CAN Learn® Lesson Title	Pre-requisite	Lesson Description	DCPS Standards
1	HA1-003	Order of Operations		Simplify whole numbers and rational expressions using the order of operations.	
2	HA1-015	Graphing Real Numbers Using a Number Line		Review of basic number line terminology and define the set of Real numbers. Locate real numbers on the number line.	
3	MPA-124	Classifying Numbers in the Real Number System	MPA-045, MPA-029	Identify if a given number is rational or irrational. Classify a number as an element of the set of natural numbers, whole numbers, integers, rational numbers, irrational numbers, and/or real numbers.	8.NSO-N.2.
4	MPA-064	Finding Square Roots	MPA-026	Find the square root of perfect squares. Identify the radical symbol. Recognize that squaring and taking the square root are inverse operations. Determine that squaring a number and finding the area of a square are related.	8.NSO-C.13.
5	MPA-065	Estimating Square Roots	MPA-064	Estimate square roots that are not perfect squares using a number line. Approximate square roots using a calculator. Estimate the dimensions of a square given the area. (Updated Fall 2010)	8.NSO-E.16.
6	HA1-025	Comparing and Ordering Real Numbers	HA1-015	Use a number line to order real numbers. Compare the values of two rational numbers then choose the correct symbol (>, <, or =) that makes the statement true. Given a set of five real numbers, select the one that has the least value. From a set of five real numbers, list the numbers from smallest to greatest. Solve a word problem involving comparisons of real numbers.	
7	HA1-030	Using Opposites and Absolute Values	HA1-025	Use a number line to define opposites of real numbers and define absolute value graphically. Simplify the sum or difference of two real number expressions which are enclosed in absolute value symbols.	8.NSO-N.3.
8	HA1-035	Adding Real Numbers Using a Number Line	HA1-015	Use a number line to add single-digit real numbers which may or may not have the same signs. Choose which number line represents the given addition sentence. Add real numbers presented in a word problem where you must determine which numbers are positive and which are negative.	
9	HA1-040	The Addition Rule for Real Numbers	HA1-030, HA1-035	Use the addition rule to find the sum of two real numbers with like/unlike signs. Find the sum of two real numbers that include absolute value symbols. Simplify an algebraic expression for integer values of the variables.	
10	HA1-045	Subtracting Real Numbers	HA1-040	Use the subtraction rule for real numbers and define the opposite of a number. Find the difference of two real numbers that include absolute value symbols. Simplify an algebraic expression for integer values of the variables.	
11	HA1-050	Multiplying Real Numbers	HA1-030	Use the Zero Product property to simplify a product of factors where one of the factors is zero. Use the Identity Property for Multiplication to simplify a product that includes a factor of -1. Simplify an algebraic product for real values of the variables.	
12	HA1-055	Dividing Real Numbers	HA1-050	Use the Inverse Property for Multiplication to define division of real numbers as multiplication by the reciprocal of the divisor. Understand that division by zero is undefined. Simplify an algebraic quotient where the numerator and denominator include variable expressions for integer values of the variables.	
13	HA1-060	Evaluating Numerical Expressions Using the Order of Operations	HA1-003, HA1-062	Simplify numerical expressions which contain up to three operations (addition or subtraction and multiplication or division) and may or may not include grouping symbols. Simplify numerical expressions where one of the factors to be distributed is -1.	8.NSO-N.7.
14	HA1-810	Simplifying Expressions Using the Multiplication Properties of Exponents	HA1-062	Review terminology (base, exponent, and power). Use the Properties of Exponents to multiply numerical and algebraic expressions. Apply the properties of exponents and volume formulas to find the volume of geometric solids with variable measures.	8.NSO-N.6.
15	HA1-815	Simplifying Expressions with Negative and Zero Exponents	HA1-810	Simplify numeric expressions using the properties for negative and zero exponents. Evaluate exponential expressions with integer exponents, including the powers of 0 and 1. Rewrite exponential expressions with positive exponents using the reciprocal. Solve real-life problems using the properties of integer exponents.	

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16	HA1-818	Simplifying Expressions Using the Division Properties of Exponents	HA1-815	Review the definitions of exponent, power, and base. Simplify exponential expressions using the Quotient of Powers Property or Power of a Quotient Property. Students will use the Quotient of Powers Property or Power of a Quotient Property to find the ratio of geometric figures.	
17	HA1-235	Applying Scientific Notation	HA1-810, HA1-815, HA1-818	Use exponents and scientific notation to describe very large and very small numbers. Convert numbers written in standard form to scientific notation and vice versa. Compare numbers written in scientific notation in a contextual situation. Use the commutative and associative properties for rational numbers and the properties of exponents to multiply or divide numbers in scientific notation. Raise a number that is written in scientific notation to a power. Examples include, distance between planets, world population, microscopic colonies.	8.NSO-N.4.
18	HA1-005	Evaluating Algebraic Expressions		Define a variable and an algebraic expression. Evaluate algebraic expressions involving multiple variables and rational expressions with given replacement sets of whole numbers.	8.PRA.6.
19	HA1-065	Evaluating Expressions Containing Exponents	HA1-062	Evaluate algebraic expressions including multiple variables, rational expressions, and expressions with exponents for given replacement sets of integers.	8.PRA.6.
20	HA1-095	Translating Word Phrases into Algebraic Expressions	HA1-065	Translate word phrases into the language of Algebra using simple one variable expressions. Write an algebraic expression for a given word phrase.	
21	HA1-070	Evaluating Formulas for Given Values of the Variables	HA1-005, HA1-065	Solve word problems using a formula when given the necessary information. Examples include finding the area and circumference of a circular object, and finding the distance traveled.	8.PRA.6.
22	HA1-075	Simplifying Algebraic Expressions by Combining Like Terms		Define the words algebraic term, coefficient, and like terms. Combine like terms using the distributive property. Use Geometric Models with variable dimensions to solve problems involving combining like terms.	8.PRA.6.
23	HA1-076	Basic Distributive Property	HA1-075	Simplify an algebraic expression using the distributive property for integers and rational numbers.	8.NSO-N.1.
24	HA1-085	Simplifying Expressions Using the Properties of Real Numbers	HA1-065, HA1-075	Use the Associative and Commutative properties to add or multiply compatible numbers. Define the three properties of equality: reflexive, symmetric, and transitive. Use the Distributive property and combining like terms to simplify algebraic expressions.	8.NSO-N.1.
25	HA1-079	Using a Concrete Model to Simplify Algebraic Expressions	HA1-075, HA1-095	Write an algebraic expression from a model using algebra tiles. Model an algebraic expression with algebra tiles that requires combining like terms or using the distributive property. Write an algebraic expression from a model then simplify. Translate a word phrase into an algebraic expression and model using algebra tiles.	8.PRA.6.
26	HA1-090	Simplifying Expressions Using the Property of -1	HA1-076	Simplify algebraic expressions using the Multiplication Property of -1. Determine if an algebraic expression is true or false by correctly applying that property.	8.PRA.7.
27	HA1-080	Simplifying and Evaluating Algebraic Expressions Containing Grouping Symbols	HA1-005, HA1-090	Simplify an algebraic expression by using the Distributive property then combine like terms. Simplify algebraic expression using the distributive property including when the coefficient outside of the grouping symbols is implied, such as $-(2x - 1)$. Use Geometric Models with variable measures to solve problems involving combining like terms and grouping symbols.	
28	MPA-155	Comparing and Converting Rates	MPA-079, MPA-130	Use dimensional analysis to find rates and unit rates. Convert a rate to another with a different unit of measure, e.g. m/s to m/min, or ft/s to yd/min. Solve real-world problems that involve rate.	8.NSO-C.9.
29	MPA-081	Converting Fractions, Decimals, and Percents I	MPA-031	Express percents that are between 1%-100% as decimals and fractions. Solve problems involving converting percents to decimals or fractions and back again.	
30	MPA-082	Converting Fractions, Decimals, and Percents II	MPA-081	Express percents that are less than 1% or greater than 100% as decimals and fractions. Solve application problems involving converting percents to decimals or fractions.	
31	MPA-126	Solving Real-World Problems Involving Sales Tax	MPA-081, MPA-083	Calculate the dollar amount of sales tax given the price and rate of sales tax. From a word problem, calculate the total amount of an item given the cost of the item and the sales tax rate. Given a real-life situation, find the original price of an item from the given information.	8.NSO-C.11.
32	MPA-127	Solving Real-World Problems Involving Discounts, Markups, and Commission	MPA-081, MPA-083	Calculate the dollar amount of discount on an item given the percent of discount and the original price before discount. Calculate the markup of an item when given the original price and the percent of markup. Solve a stated problem involving base salary and commission.	8.NSO-C.11.
33	MPA-128	Solving Real-World Problems Involving Simple and Compound Interest	MPA-013, MPA-081, MPA-083	Calculate the simple interest given principal, rate, and time in whole number of years. Identify the interest, rate of interest, principal, or time in a story about simple interest. Calculate the simple interest given principal, rate, and time in months. Solve a stated problem that requires calculating compound interest.	8.NSO-C.11.
34	MPA-053	Adding, Subtracting, Multiplying, and Dividing Integers	MPA-044, MPA-045	Add, subtract, multiply and divide integers with like and unlike signs. Solve problems involving operations with integers, such as, changes in depth of shipwrecked vessels.	

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35	MPA-054	Solving One-Step Equations with Integers Using all Four Operations	MPA-053	Use the rules for integer operations to solve one-step equations with integers using addition, subtraction, multiplication and division. Solve real-world application problems involving integers and verify the reasonableness of the solution.	8.PRA.2.
36	MPA-100	Solving Two-Step Equations with Positive Coefficients	MPA-012	Review solving one-step equations using the properties of equality. Solve two-step equations with positive coefficients and integer solutions and verify that the answer is a solution to the equation. Write a two-step equation from a real-world situation based on a linear relationship, find the solution to the equation and verify the answer is reasonable.	8.PRA.2.
37	MPA-165	Solving Two-Step Equations with Negative Coefficients	MPA-100	Solve two-step equations with negative coefficients and integer solutions and verify that the answer is a solution to the equation. Write a two-step equation from a real-world situation based on a linear relationship, find the solution to the equation and verify the answer is reasonable. Examples include, number of hours for a temperature to decrease, cost reductions over time.	8.PRA.2.
38	MPA-101	Solving Two-Step Equations by Combining Like Terms	MPA-100, MPA-165	Review algebraic terminology (terms, coefficient, constant, like terms). Solve multi-step equations with integer coefficients by combining like terms and solving for the variable. Verify that the answer is a solution to the equation. Use symbolic algebra to translate a situation into a multi-step equation, solve the equation, and check the solution. Write a multi-step equation that involves combining like terms from a real-world situation, solve the equation, and verify the answer is reasonable. Examples include finding the profit at a fundraising event.	8.PRA.2.
39	MPA-170	Solving Equations Using the Distributive Property	MPA-101	Solve multi-step equations with integer coefficients using the distributive property and solving for the variable. Verify that the answer is a solution to the equation. Use mathematical reasoning to determine the error made when solving equations using the distributive property. Write a multi-step equation that involves using the distributive property from a real-world situation, solve the equation, and verify the answer is reasonable. Examples include, ticket costs, finding the perimeter of geometric figures.	8.PRA.2.
40	MPA-175	Solving Equations with Variables on Both Sides	MPA-101, MPA-170	Solve two-step equations using inverse operations and combining like terms then verify the result by checking the solution. Use symbolic algebra that represents a real-world situation by writing an equation, solving the equation, and interpreting the results. Examples include, internet service plans, health club membership plans. When given a geometric figure with variable lengths, write and solve an equation that has variables on both sides then find the perimeter of the figure.	8.PRA.2.
41	MPA-109	Solving and Graphing Linear Inequalities on a Number Line	MPA-054, MPA-100, MPA-165	Use the symbols of inequality to define a linear inequality. Graph simple inequalities on a number that represents all possible solutions to the inequality. Use inverse operations to simplify and solve one- and two-step linear inequalities and graph the solutions. Verify the solutions are reasonable.	8.PRA.2.
42	MPA-125	Formulating a Possible Problem Situation Given an Equation		Match simple equations or formulas to a given real-life situation. Create a possible narrative situation from perimeter, area, and volume formulas and equations.	
43	MPA-102	Graphing Equations by Plotting Points	MPA-046	Graph linear equations on the Coordinate Plane. Use a table of x- and y- values to find three coordinate points that satisfy the equation. Plot the points on the Coordinate Plane and draw a line. Choose the graph that represents the equation of the line. State if the equation represents a vertical or horizontal line.	8.PRA.9.
44	MPA-103	Distinguishing Between Relations and Functions	MPA-102	Define relations and functions. Given the graph of a relation, determine if the relation is a function. Given a set of points, determine if the relation is a function.	
45	MPA-135	Determining the Slope of a Line	MPA-046	Graph proportional relationships and identify the slope of a line as the rate of change. Use interactivity to identify the steepest slope. Determine if the slope of the line is positive, negative, zero, or undefined. Find the slope of a line given two points on the line. Model real-world situations using graph, tables, and equations and use reasoning to interpret the results.	8.PRA.4.
46	MPA-140	Examining Linear Equations in Slope-Intercept Form	MPA-100, MPA-135	Use the slope and y-intercept to graph linear functions and identify situations with constant or varying rates of change. Find the slope of a line given a graph, an equation, or table and determine the rate of change given a real-world scenario.	8.PRA.1.
47	MPA-142	Solving Problems With Linear Functions and Direct Variation	MPA-140	Identify the slope as a rate of change and the y-intercept as the initial amount given a real-life situation from a table. Identify the constant of variation, k, from an equation, or table. Solve a multi-step problem involving direct variation using proportions.	8.PRA.3., 8.PRA.8.
48	MPA-150	Identifying and Graphing Linear and Nonlinear Functions	MPA-135, MPA-142	Given an equation, graph, or table, determine whether the function is linear or nonlinear. Identify and graph $y = nx^2$ and $y = nx^3$. In a real-life situation, graph a nonlinear function from an equation or table of values.	

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49	MPA-104	Recognizing Patterns	MPA-016, MPA-031, MPA-045	Determine a pattern or sequence from a given set. Given a sequence of numbers, determine the rule and find the next term of the sequence, or the n th term of the sequence. Identify the Fibonacci sequence and find the next terms in the sequence.	
50	MPA-270	Generating Algebraic Expressions from Patterns of Models	MPA-104, MPA-142	Generate a sequence from a table that represents a rule given an algebraic expression. Generate a rule from a graphical representation e.g. pattern of blocks. Write a rule that describes a numerical sequence in a table. Describe the relationship between variables shown on a graph as a direct variation.	
51	MPA-057	Identifying and Applying Supplementary and Complementary Angles	MPA-056	Given an angle, find its complement and its supplement. Use elementary algebra to solve a problem involving supplementary angles. Find the measure of the internal angles of a triangle given one internal and one external angle of the triangle. Demonstrate understanding of the fact that angles that sum to a straight angle have measures which add up to 180° .	
52	MPA-105	Determining the Measure of Angles Made by Parallel Lines and a Transversal	MPA-057	Compare parallel and skew lines and show the properties of each. Given two parallel lines and a transversal, identify a pair of corresponding angles, a pair of alternate exterior angles. Given two parallel lines, a transversal, and the measure of one angle find the measure of another angle. Given two parallel lines, two transversals, and the measure of two angles, find the measures of two other angles.	8.G.2.
53	MPA-121	Identifying Similar and Congruent Polygons Using Proportions	MPA-058, MPA-059, MPA-080	Use hash marks to show congruency. Use symbols to represent polygons, angles, polygon sides, correspondence, congruence, and similarity. Write proportions from diagrams which show similar polygons. Determine the missing length given two similar figures with all but one side length.	8.G.3.
54	HA1-893	Constructing Solids from Different Perspectives		Identify the face of a three-dimensional figure from an isometric drawing. Determine the three-dimensional figure when given the top, front and side views. Choose the solid that is represented by the three given views (Top, Side, or Front).	8.G.5.
55	MPA-066	Solving Problems Using the Pythagorean Theorem	MPA-064	Derive the Pythagorean Theorem using models. Find the length of one side of a right triangle given the length of the other two sides using the Pythagorean Theorem. Use the converse of the Pythagorean Theorem to determine whether a triangle is a right triangle with the given sides. Apply the Pythagorean Theorem to find distances between points in the coordinate plane to measure lengths. Use the Pythagorean Theorem in a contextual situation to estimate and find unknown lengths.	
56	HA1-520	Finding the Distance Between Two Points on a Coordinate Plane	HA1-370, HA1-515	Use the Distance Formula to find the distance between two points on a coordinate plane. Simplify any radicals and write as exact solutions.	8.G.6.
57	HA1-876	Applying Length, Midpoint and Slope of a Segment on a Cartesian Plane	HA1-370, HA1-520	Find the slope from two points in the coordinate plane. Find the midpoint from two points in the coordinate plane. Find the distance between two points in the coordinate plane and round the answer to the nearest stated place value.	8.G.6.
58	MPA-067	Finding the Area of Rectangles and Parallelograms	MPA-055	Find the area of rectangles and parallelograms. Determine if two rectangles with the same perimeter have the same area.	
59	MPA-069	Finding the Area of Triangles and Trapezoids	MPA-067	Describe the relationship between the area of a parallelogram and the area of a triangle. Define the altitude of a triangle. Find the area of a triangle given the lengths or find one of the lengths given the area and the other length. Show that the area of a trapezoid is equal to the sum of the areas of two triangles with bases parallel. Find the area of a trapezoid given the bases and height and find the base or height given the area. Use formulas to find the areas of triangles and trapezoids in a real-world context and extend the mathematical concepts by finding costs, or quantities. Examples include, the cost of home-improvement, or landscaping projects.	
60	MPA-070	Finding the Circumference of a Circle	MPA-014, MPA-017	Identify the circle, diameter, radius, and circumference. Describe approximations of pi in terms of a fraction, or a decimal. Find the circumference of a circle. Solve problems involving rotation. Given the circumference, find the diameter or radius of a circle.	
61	MPA-071	Finding the Area of a Circle	MPA-070	Find the area of a circle. Solve problems involving finding the area of circular objects. Given the area, find the radius of a circular object.	
62	MPA-068	Finding the Area of Irregular Figures	MPA-058, MPA-067	Review area formulas for polygons. Name the polygons and identify the area formulas that can be used to find the area of an irregular figure. Find the area of an irregular figure by dividing the figure into known polygons, and using their area formulas to find the sum of the areas. Given a contextual situation, use area formulas to find the area of an irregular figure then extend understanding by finding cost of materials, or square footage.	

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63	HA1-889	Complementary and Supplementary Angles	HA1-145, HA1-150	Use models to define complementary and supplementary angles. Find the measure of unknown angles using algebraic equations. Find the measure of angles written as polynomials using the properties of complementary and supplementary angles.	
64	HA1-890	Using Models to Derive Formulas for Two-Dimensional Geometric Figures		Find the perimeter or area of a geometric figure in which the dimensions are given as algebraic expressions. Find the area of the shaded portion of a geometric figure. Given a geometric figure whose dimensions are algebraic expressions in one variable, find an appropriate domain for the variable.	
65	MPA-072	Identifying 3-D Figures		Identify and draw three-dimensional figures including prisms, cones, cylinders, pyramids, and spheres. Identify the terms: polyhedrons, faces, edges, and vertices. Identify regular polyhedrons as platonic solids. Given the shape of the polyhedron, determine if the figure is a prism, a pyramid, a cone, or a cylinder.	
66	MPA-106	Identifying a Solid Figure From a Net	MPA-068, MPA-072	Find the number of faces, edges and vertices of a given prism. Identify the solid that corresponds to a given net.	
67	MPA-073	Finding the Surface Area of Rectangular Prisms	MPA-067, MPA-106	Find the surface area of rectangular prisms. Solve problems involving finding the surface area of an object. Given the surface area of a square prism, find the length of one of the sides.	8.M.2.
68	MPA-074	Finding the Surface Area of Cylinders	MPA-067, MPA-071	Find the surface area of cylinders given the radius or diameter and height. Given the surface area and radius or diameter, find the height of the cylinder. Solve problems involving finding the surface area of an object.	8.M.2.
69	MPA-075	Finding the Volume of Rectangular Prisms	MPA-019, MPA-036	Find the volume of rectangular prisms. Solve problems involving finding the volume of objects that are rectangular prisms.	8.M.2.
70	MPA-076	Finding the Volume of Cylinders	MPA-019, MPA-071	Find the volume of cylinders. Solve problems involving finding the volume of objects that are cylinders.	8.M.2.
71	MPA-077	Solving Problems Using a Formula	MPA-014	Solve real-world application problems using a formula, e.g. distance-rate-time problems, temperature conversion problems, area problems.	
72	MPA-115	Finding the Volumes of Prisms, Cylinders, Pyramids, and Cones Using Models	MPA-036, MPA-072	Find the volume of prisms with rectangular or triangular bases with dimensions as whole numbers. Find the volume of cylinders with at least one dimension as a decimal. Find the volume of pyramids with dimensions as whole numbers or at least one number as a fraction. Find the volume of cones with dimensions as whole numbers.	8.M.2.
73	MPA-111	Comparing Perimeters, Areas, and Volumes of Similar Geometric Figures and Solids	MPA-121	Use the scale factor and the perimeter of one rectangle to evaluate the perimeter of similar rectangles. Use properties of similar rectangles to find the area. Estimate the volume of similar figures when the scale factor is given. Use properties of similar trapezoids to find the area. Use the scale factor to estimate the ratio of volumes of cylinders. Use properties of similar parallelograms to find the area.	8.M.4.
74	HA1-891	Using Models to Derive Formulas for Three-Dimensional Solids	HA1-890	Use models to derive formulas to find the volume or surface area of geometric solids, such as, spheres, prisms, cylinders, pyramids and cones where the dimensions are given in algebraic expressions. Find the volume or surface area of a complex figure in a word problem made up of two geometric solids.	8.M.2.
75	HA1-540	Finding the Mean, Median, and Mode from Data and Frequency Distribution Tables	HA1-062, HA1-545	Define measures of central tendency. Determine the most appropriate measure of central tendency for a given situation. Given a set of data with a missing piece of that data, and the new measure of central tendency, find the unknown quantity, Examples: If Karen's scores are 70, 81, 90, and 67 what must her next score be to get an average of 80?	8.DASP.1.
76	HA1-541	Analyzing Data Using the Measures of Central Tendency and the Range	HA1-540	Define two types of data as quantitative and categorical. Calculate the mean, median, mode and range of a set of data in a contextual situation. Explain factors in a data set that would affect measures of central tendency and determine which measure is most appropriate for a given situation.	8.DASP.1.
77	MPA-096	Constructing Stem-and-Leaf Plots	MPA-095	Construct stem-and-leaf plots to display data sets. Create a key that describes a stem-and-leaf plot. Draw single- or back-to-back stem-and-leaf plots depending on the given data. Read and interpret stem-and-leaf plots and answer questions related to the given data.	8.DASP.2.
78	MPA-097	Constructing Box-and-Whisker Plots	MPA-095, MPA-129	Construct box-and-whisker plots from a given set of data. Determine the median, the upper and lower quartiles, the upper and lower extremes, the interquartile range, and the outliers from the data.	8.DASP.2.
79	MPA-132	Interpreting and Creating Scatterplots	MPA-046, MPA-135	Determine the correlation for a given scatterplot. Describe the relationship between any two sets of data and use the best fit line to make predictions within a given scatterplot.	
80	HA1-965	Determining the Best-Fitting Line	HA1-955	Use a table of values to determine a linear or non-linear function. Define scatterplot, line-of-best-fit, and correlation.	

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81	MPA-840	Interpreting Data		Interpret data from a table or from a graph. Decide if the data represented in a graph or a table is misleading. Compare graphical representations of the same data.	8.DASP.3.
82	HA1-879	Applying Counting Techniques to Permutations and Combinations		Define the Fundamental Counting Principle and use it to count how many ways an arrangement can be represented. Use Permutations to count the number of ways given n objects to select r when order is important. Use Combinations to count the number of ways given n objects to select r when order is not important.	8.DASP.6.
83	MPA-090	Finding the Probability of Simple Real-Life Events	MPA-078, MPA-089	Define the probability of an event as the number of successful outcomes to the number of total possible outcomes. Define independent and dependent events.	
84	MPA-112	Constructing Sample Spaces for Compound Events (Dependent and Independent)	MPA-089, MPA-090	Define and identify dependent or independent events. Use models to list sample spaces for experiments with at most 10 outcomes. Find the probability of an event with or without replacement when another event has occurred. Find the probability of an event when another event has occurred and the events are independent.	8.DASP.7.
85	MPA-113	Finding the Probability of Compound Events Through Experimentation	MPA-089	Use models to represent sample spaces then find the probability of a combination of events. Find the probability of a combination of events using the words "or", "and", & "when". Examples use number cubes, spinners, or a combination of the two.	
86	MPA-114	Finding the Odds of Events and Experimental Probability from a Math Model	MPA-090, MPA-112	Find the odds in favor or the odds against getting an event. Compare experimental and theoretical probability. Find the experimental probability of an event from a set of data. Find the complement of experimental probability of a compound event from data in a survey.	