



Alignments to SuccessMaker

Providing rigorous intervention for K-8 learners with unparalleled precision

exponents to generate equivalent numerical expressions. For example, 32 x 3-5 = 3-3 = 1/33 = 1/27. 8.EE.3 Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small quantities, and to express how many times as much one is than the other. For example, estimate the population of the United States as 3 x 108 and the population of the world as 7 x 109, and determine that the world population is more than 20 times larger. Write very small numbers in scientific notation. Write very large numbers in scientific notation. Write very large numbers in scientific notation. Find the missing exponent for a number written in scientific notation (the exponent is 1 to 6). Sheep the population of the united states as 3 x 108 and the population of the world as 7 x 109, and determine that the world population is more than 20 times larger. Write very large numbers in scientific notation. Find the missing exponent for a number written in scientific notation (the exponent is 1 to 6). Sheep the population of a number written in scientific notation (the exponent is 1 to 6). Sheep the population of the united states as 3 x 108 and the population is more than 20 times larger. Sheep the population of the united states as 3 x 108 and the population is more than 20 times larger. Sheep the population of the united states as 3 x 108 and the population is more than 20 times larger. Sheep the population of the united states as 3 x 108 and the population of a number written in scientific notation (the exponent is 1 to 6). Sheep the population of the united states as 3 x 108 and the population of a number written in scientific notation (the exponent is 1 to 6). Sheep the population of the united states as 3 x 108 and the population of a number written in scientific notation (the exponent is 1 to 6). Sheep the population of the united states as 3 x 108 and the population of a number written in scientific notation. Sheep the population of the united states as 3 x 108 and t	ltem ID
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Given the scientific notation, determine the standard notation of a number (the power of 10 has an exponent of 1 to 6). Module 2: The Concept of Congruence Understand congruence and similarity using physical models, transparencies, or geometry software. 8.G.5 Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give	SMMA_LO_01122
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Understand congruence and similarity using physical models, transparencies, or geometry software. 8.G.5 Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, identify the transformations that would line one angle up with another angle. Then, describe the relationship between the angle-angle criterion for similarity of triangles. For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give	
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this is so.	5MMA_LO_02129
	SMMA_LO_02126
Understand and apply the Pythagorean Theorem.	
	5MMA_LO_02132
Explain a proof of the Pythagorean Theorem. SN Module 3: Similarity	SMMA_LO_02131

New York State Engage Standards Code	New York State Engage Math Modules Common Core Learning Standards, Grade 8	SuccessMaker Item Description	Item ID
	Understand congruence and similarity using physical models, transparencies, or geometry software.		
8.G.3	Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	Determine the algebraic expression used to find the coordinates of the image of a figure under a dilation with the origin as the center of dilation.	SMMA_LO_02142
8.G.4	Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.	Identify the figure that is not similar to the others. (simple shapes, counterexample)	SMMA_LO_00649
8.G.5	Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so.	In a figure in which parallel lines are cut by a transversal, identify the transformations that would line one angle up with another angle. Then, describe the relationship between the two angles.	SMMA_LO_02129
		Arrange statements to write a proof of a fact about either the angle sum or the exterior angle of a triangle.	SMMA_LO_02126
	Understand and apply the Pythagorean Theorem.		
8.G.6	Explain a proof of the Pythagorean Theorem and its converse.	Explain a proof of the converse of the Pythagorean Theorem.	SMMA_LO_02132
	Module 4: Linear Equations	Explain a proof of the Pythagorean Theorem.	SMMA_LO_02131
	Understand the connections between proportional relationships, lines, and linear equations.		
8.EE.5	Graph proportional relationships, interpreting the unit rate as the slope of the graph. Compare two different proportional relationships represented in different ways. For example, compare a distance-time graph to a distance-time equation to determine which of two moving objects has greater speed.	Graph proportional relationships and interpret the unit rate as the slope of the graph.	SMMA_LO_02073
8.EE.6	Use similar triangles to explain why the slope m is the same between any two distinct points on a non-vertical line in the coordinate plane; derive the equation y = mx for a line through the origin and the equation y = mx + b for a line intercepting the vertical axis at b.	Derive the equation y = mx for a line through the origin, and y = mx + b for a line intercepting the vertical axis at b.	SMMA_LO_02076
	, , , , , , , , , , , , , , , , , , , ,	Use similar triangles to explain why the slope m is the same between any two distinct points on a nonvertical line in the coordinate plane.	SMMA_LO_02075

New York State	New York State Engage Math Modules		
Engage Standards	Common Core Learning Standards,	SuccessMaker Item Description	Item ID
Code	Grade 8		
	Analyze and solve linear equations and		
	pairs of simultaneous linear equations.		
8.EE.7	Solve linear equations in one variable.	- C	
8.EE.7a	Give examples of linear equations in one	Transform a given multi-step equation into a	SMMA_LO_02079
	variable with one solution, infinitely many	simpler form.	
	solutions, or no solutions. Show which of		
	these possibilities is the case by successively		
	transforming the given equation into simpler		
	forms, until an equivalent equation of the		
	form $x = a$, $a = a$, or $a = b$ results (where a		
S = = 71	and b are different numbers).		C14144 1 0 00445
3.EE.7b	Solve linear equations with rational number	Generate and solve an equation with	SMMA_LO_02145
	coefficients, including equations whose	variables on both sides of the equal sign in a	
	solutions require expanding expressions	real-world context.	
	using the distributive property and collecting		
	like terms.	California de la constitución de	CNANA 10 04050
		Solve a two-step equation (fractions,	SMMA_LO_01850
		multiplication).	CNANA 10 01631
		Solve a two-step addition problem to find a	SMMA_LO_01631
		person-s age in 5 to 20 years from now.	CNANA 10 04047
		Solve a one-step equation (fractions,	SMMA_LO_01847
		multiplication and division).	CNANA 1.0.04046
		Solve a two-step equation (integers).	SMMA_LO_01846
		Solve for a two-step equation in context.	SMMA_LO_01638
		Find three consecutive integers when given	SMMA_LO_01639
		their sum.	CNANA 10 01633
		Solve a two-step multiplication and addition problem in context.	SMMA_LO_01633
8.EE.8	Analyze and solve pairs of simultaneous	problem in context.	
D.EE.0	Analyze and solve pairs of simultaneous linear equations.		
3.EE.8a	Understand that solutions to a system of two	Identify the solution to a system of linear	SMMA_LO_02080
D.EE.Od	linear equations in two variables correspond	equations by locating the point of	SIVIIVIA_LO_02080
	to points of intersection of their graphs,	intersection on its graph.	
	because points of intersection satisfy both	intersection on its graph.	
	equations simultaneously.		
	equations simultaneously.	Model a real-world problem with a system of	SMMA_LO_02134
		linear equations. Then solve it by locating the	SIVIIVIA_LO_02134
		intersection point of the graphs of the two	
		equations.	
3.EE.8b	Solve systems of two linear equations in two	If a system of linear equations has 0 or	SMMA_LO_02133
8.EE.80	variables algebraically, and estimate	infinitely many solutions, solve it by	3.VIIVIA_LO_02133
	solutions by graphing the equations. Solve	inspection. If it has 1 solution, solve it either	
	simple cases by inspection. For example, 3x +	algebraically or by graphing.	
	2y = 5 and 3x + 2y = 6 have no solution		
	because 3x + 2y cannot simultaneously be 5		
	and 6.		
8.EE.8c	Solve real-world and mathematical problems	Identify the solution to a system of linear	SMMA_LO_02080
J	leading to two linear equations in two	equations by locating the point of	5
	variables. For example, given coordinates for	intersection on its graph.	
	I Variables, for example given coordinates for		
		8. apr	
	two pairs of points, determine whether the line through the first pair of points intersects		

New York State	New York State Engage Math Modules		
Engage Standards	Crade 8	SuccessMaker Item Description	Item ID
Code	Grade 8	Model a real-world problem with a system of	SMMA_LO_02134
		linear equations. Then solve it by locating the	SIVIIVIA_LO_02154
		intersection point of the graphs of the two	
		equations.	
	Module 5: Examples of Functions from		
	Geometry		
3.F.2	Define, evaluate, and compare functions. Compare properties of two functions each	Identify the rate of change and the y-	SMMA_LO_02102
.F.∠	represented in a different way (algebraically,	intercept of two linear functions, one	SIVIIVIA_LO_02102
	graphically, numerically in tables, or by	represented in a verbal description, and one	
	verbal descriptions). For example, given a	represented either graphically or	
	linear function represented by a table of	algebraically.	
	values and a linear function represented by		
	an algebraic expression, determine which		
	function has the greater rate of change.		
3.F.3	Interpret the equation y = mx + b as defining	Derive the equation y = mx for a line through	SMMA_LO_02076
	a linear function, whose graph is a straight	the origin, and $y = mx + b$ for a line	
	line; give examples of functions that are not	intercepting the vertical axis at b.	
	linear. For example, the function A = s2 giving the area of a square as a function of its side		
	length is not linear because its graph		
	contains the points (1,1), (2,4) and (3,9),		
	which are not on a straight line.		
	Solve real-world and mathematical		
	problems involving volume of cylinders,		
	cones, and spheres.		
s.G.9	Know the formulas for the volumes of cones,	Use a formula to find the volume of a	SMMA_LO_00839
	cylinders, and spheres and use them to solve	cylinder.	
	real-world and mathematical problems.		
		Use a formula to find the volume of a cone or a sphere.	SMMA_LO_00844
	Module 6: Linear Functions	огазрпете.	
	Use functions to model relationships		
	between quantities.		
.F.4	Construct a function to model a linear	Identify the rate of change and the y-	SMMA_LO_02102
	relationship between two quantities.	intercept of two linear functions, one	
	Determine the rate of change and initial	represented in a verbal description, and one	
	value of the function from a description of a	represented either graphically or	
	relationship or from two (x, y) values,	algebraically.	
	including reading these from a table or from		
	a graph. Interpret the rate of change and initial value of a linear function in terms of		
	the situation it models, and in terms of its		
	graph or a table of values.		
8.F.5	Describe qualitatively the functional	Identify the function that is represented by a	SMMA_LO_01883
	relationship between two quantities by	table of values (linear and nonlinear).	
	analyzing a graph (e.g., where the function is		
	increasing or decreasing, linear or nonlinear).		
	Sketch a graph that exhibits the qualitative		
	features of a function that has been		
	described verbally.	Determine if a table values represents a	CMMA LO 01934
		Determine if a table values represents a linear or nonlinear function.	SMMA_LO_01834
		Identify if an equation is a linear or nonlinear	SMMA_LO_01833

New York State Engage Standards Code	New York State Engage Math Modules Common Core Learning Standards, Grade 8	SuccessMaker Item Description	Item ID
		Identify whether graphs are linear or nonlinear.	SMMA_LO_01832
	Module 7: Introduction to Irrational Numbers Using Geometry		
	Know that there are numbers that are not rational, and approximate them by rational numbers.		
8.NS.2	Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π 2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	Drag rational and irrational values to their correct positions on a number line.	SMMA_LO_02141
	Understand and apply the Pythagorean Theorem.		
8.G.6	Explain a proof of the Pythagorean Theorem and its converse.	Explain a proof of the converse of the Pythagorean Theorem.	SMMA_LO_02132
		Explain a proof of the Pythagorean Theorem.	SMMA_LO_02131
8.G.8	Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	Given two points on a coordinate grid, draw a right triangle whose hypotenuse connects the two points. Then use the Pythagorean Theorem to find the distance between the two points.	SMMA_LO_02100
	Solve real-world and mathematical problems involving volume of cylinders, cones, and spheres.		
8.G.9	Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical problems.	Use a formula to find the volume of a cylinder.	SMMA_LO_00839
		Use a formula to find the volume of a cone or a sphere.	SMMA_LO_00844