8.2: Number	& Operations: Real Numbers
8.2A(S)	
Skill Code	Description
147007	Determine realationships between subsets of real numbers
8.2B(S)	
Skill Code	Description
	Estimate irrational numbers, integer radicands, including
58105	number line representations
	Estimate irrational numbers, fraction radicands, including
58107	number line representations
	Estimate irrational numbers, decimal radicands, including
58106	number line representations
	Estimate irrational numbers, including number line
58108	representations
58104	Identify location of rational or irrational numbers on number lines
381010	Estimate irrational values, including negatives
1040025	Given area or square, estimate side length
8.2C(S)	
Skill Code	Description
	Identify correct conversion of number from scientific notation
502009	with positive exponent to standard form
	Identify correct conversion of number from scientific notation
502011	with negative exponent to standard form
	Identify correct conversion of number from standard form to
502001	scientific notation with positive exponent
	Identify correct conversion of number from standard form to
502003	scientific notation with negative exponent
	Identify correct conversion of number between scientific
502017	notation & standard form
502019	Convert number between scientific notation & standard form
502016	n
8.2D(R)	
Skill Code	Description
	Order real numbers, positive exponents, percents are whole,
147006	including real-world context
	Order real numbers, positive exponents, percents are whole,
147016	including real-world context
147005	Order real umbers, exponents are positive
8.3: Proporti	onality: Dilations
8.3A(S)	

Skill Code	Description
1062046	Given similar figures, identify proportion of side lengths
	Given similar figures, identify proportion of side lengths, triangles
1062870	& quadrilaterals
	Given similar figures, identify proportion of side lengths, image
1062871	orientations differ
8.3B(S)	
Skill Code	Description
1063006	Identify characteristics of dilations
1063501	Given similar figures, identify description of transformations
1063506	Identify congruence transformations
8.3C(R)	
Skill Code	Description
	Identify rule or dilated point on coordinate plane, including
1063005	variable scale factors
	Determine variable scale factor or variable measurement of
1638102	dilated figures
8.4: Proporti	onality: Slope
8.4A(S)	
Skill Code	Description
	Given right triangle, use legs to determine slope, real-world
301201	context
301100	Given graph of similar right triangles, identify equivalent slopes
8.4B(R)	
Skill Code	Description
760001	Determine graph of proportional relationship real-world context
	Given unit rate, determine graph of proportional relationship,
760002	real-world context
8.4C(R)	
Skill Code	Description
301016	Given linear graph, determine rate of change, integer solution
301015	Given linear graph, determine rate of change
004000	
301026	Given linear graph, determine slope & y-intercept, integer slope
301027	Given linear graph, determine slope & y-intercept
301130	Given table of linear equation, determine rate of change
301135	Given table of linear function, determine slope & y-intercept
	Given graph or table of linear function, determine slope or y-
301136	intercept, real-world context

8.5A(S) Skill Code	Description
	Given table, determine constant of proportionality, graph, or
148100	equation
	Given graph, determine constant of proportionality, table, or
148300	equation
	Given equation, determine constant of proportionality, graph, or
148500	table
	Given constant of proportionality, determine table, graph, or
148200	equation
301500	Identify linear table with most extreme rate of change
301501	Identify linear graph with most extreme rate of change
301502	Compare rates of changes represented differently
301503	Given description, compare rates of change real-world context
8.5B(S)	
Skill Code	Description
	Form 1 - Given slope & intercept, interpret linear relationship,
	determine slope-intercept equation, & graph, positive slope, only
313014	input to output questions
	Form 3 - Given slope & intercept, interpret linear relationship,
	determine slope-intercept equation, & graph, including negative
313016	slope
	Given slope & intercept, interpret linear relationship & determine
313101	slope-intercept equation, including negative slope
	Form 6 - Given linear graph, interpret linear relationship &
313070	determine slope-intercept equation
	Given linear graph, identify equation in slope-intercept form,
306731	integer slopes, various scales
	Given linear graph, determine equation in slope-intercept form,
307730	fractional slopes
	Given description of linear equation, identify graph, integer
372003	slope, real-world context
	Given description of linear equation, identify graph, fractional
307507	slope, real-world context
	Given description of linear relationship, identify graph, table, or
302029	equation, real-world context
8.5C(S)	
Skill Code	Description

8.5D(R)	
Skill Code	Description
314011	Sketch line of best fit
314020	Sketch line of best fit & determine predicted value
314006	Sketch line of best fit & determine equation, graph scales of one
314009	Sketch line of best fit & determine equation, graph various scales
314010	Sketch line of best fit & determine equation, real-world context
314012	Sketch line of best fit & determine equation
8.5E(S)	
Skill Code	Description
602008	Determine direct variation equation, multiple choice
602007	Given point & "y varies directly with x", determine equation
	Given point, "y varies directly with x", & another value, determine
602011	equation & missing number
	Given point, "y varies directly with x", & another value, determine
602012	equation & missing number, rational numbers
602025	Solve word problems involving direct variation
8.5F(S)	
Skill Code	Description
148601	Identify tables showing proportional relationship
148602	Identify graphs showing proportional relationship
148603	Identify equations showing proportional relationship
	Identify tables, graphs, or equations showing proportional
148600	relationship
8.5G(R)	
Skill Code	Description
	Identify & justify functions & non-functions, graphical
520024	representations
	Determine & justify functions, mapping representations, no
520046	domain & range language
	Determine & justify functions, set representations, no domain &
520044	range language
	Determine & justify functions, table representations, no domain
520045	& range language
520004	Identify & determine functions, set & table representations
520043	Determine functions, graphical representations
	Determine functions, multiple representations, including
520047	justification, no domain & range language
1525577	pastingation, no admain a range tanguage

520048	Given step graphs, identify functions
8.5H(S)	
Skill Code	Description
	Identify proportional & non-proportional relationships, real-world
760003	context
8.5I(R)	
Skill Code	Description
302001	Given slope & y-intercept, determine equation
305200	Given table, determine linear equation, m = 1
302020	Given linear table, determine slope, y-intercept, & equation
	Given table, identify linear equation in slope-intercept form,
349001	rational constants & coefficients
	Identify equivalent representations of linear relationship,
302028	including real-world context
302021	Given linear graph, determine slope, y-intercept, & equation
	Given linear graph, determine equation in slope-intercept form,
348126	m = +/- 1, various scales
	Given linear graph, determine equation in slope-intercept form,
306734	integer slopes, various scales
	Given linear equation, interpret slope & y-intercept, real-world
314500	context
	Identify equivalent linear graphs & equations in slope-intercept
307732	form, various scales
	Given description of linear relationship, determine slope, y-
302019	intercept, & equation, real-world context
8.6: Expressi	ons, Equations, & Relationships: Geometric Formulas
8.6A(S)	
Skill Code	Description
1042010	Given base area & height, determine volume of cylinder
8.6B(N)	
Skill Code	Description
	Identify relationship between volume of cone & cylinder with
1152103	same base & height
8.6C(S)	
Skill Code	Description
	Given Pythagorean theorem model, determine specified
79015	component
Expressions,	Equations, & Relationships: Geometry Solve
8.7A(R)	
Skill Code	Description
1042010	Given base area & height, determine volume of cylinder
1	-

1042014	Determine volume of cylinders
1042045	Given volume, determine dimension of cylinder
1042015	Determine volume of cones
1042047	Given volume, determine dimension of cone
1042016	Determine volume of spheres
1042001	Determine volume or radius of spheres
1042005	Determine volume of cylinders, cones, & spheres
	Determine volume of cylinders, cones, & spheres, including real-
1042017	world context
8.7B(R)	
Skill Code	Description
1062044	Determine surface area of rectangular prisms
1062053	Determine surface area of triangular prisms
	Determine surface area of composite figures, rectangular &
1042056	triangular prism
1042018	Determine lateral surface area of prisms & cylinders
1062037	Determine surface areas of 3D figures
1062038	Determine surface areas of 3D figures, no circles
	Determine lateral & total surface area of prisms & cylinders,
1042019	including real-world context
8.7C(R)	
Skill Code	Description
78002	Given legs, determine hypotenuse
78006	Given leg & hypotenuse of right triangle, determine other leg
79001	Given two sides, determine missing side of right triangle
	Given two sides, determine missing side of right triangle, real-
79007	world context
79013	Apply converse of Pythagorean theorem
	Solve problems using Pythagorean theorem, including figure, real
79011	world context
79009	Solve problems using Pythagorean theorem, real-world context
	Determine side or right triangle or apply converse of Pythagorean
79014	theorem, including real-world context
8.7D(S)	
Skill Code	Description
79016	Given segment of coordinate plane, determine length
	Determine distance between points on coordinate plane,
371004	horizontal or vertical
8.8: Express	sions, Equations, & Relationships: Equations & Inequalities
8.8A(R)	

Skill Code	Description
	Determine equations with variables on both sides, real-world
750500	context
	Determine inequalities with variables on both sides, real-world
1803500	context
8.8B(S)	
Skill Code	Description
	Given equation with variables on both sides, identify real-world
750501	situation represented by equation
	Given inequality with variables on both sides, identify real-world
1803501	problem modeled by inequality
8.8C(R)	
Skill Code	Description
	Solve two-step linear equations, algebra tiles, positive
71005	coefficients
71053	Solve two-step linear equations, algebra tiles
	Given algebra tiles, determine & solve one-variable equations
84003	with variables on both sides
	Solve problems that can be represented by multi-step equations,
84004	including algebra tiles, real-world context
139050	Identify steps to solve linear equations
84050	Solve linear equations, binomials on both sides, decimals
84052	Solve linear equations, binomials on both sides, fractions
	Solve linear equations, distributive property on both sides,
84017	rationals
	Solve linear equations, distributive property on both sides,
84018	additional term on one side
84001	Solve linear equations, variables on both sides, rationals
	Determine & solve linear equations with variables on both sides,
84002	real-world context
8.8D(S)	
Skill Code	Description
	Given parallel lines with transversal & angle, determine & justify
1120019	specified angle
	Given parallel lines with transversal & angle, determine
1120011	corresponding angle, algebraic expressions
	Given parallel lines with transversal & angle, determine alternate
1120012	interior angle, algebraic expressions
	Given parallel lines with transversal & angle, determine alternate
1120013	exterior angle, algebraic expressions

-	Given parallel lines with transversal & angle, determine same-
1120015	side interior angle, algebraic expressions
	Given parallel lines with transversal & angle, vertical angle,
1120014	algebraic expressions
	Given parallel lines with transversal & angle, determine
1120016	supplement to corresponding angle, algebraic expressions
	Given parallel lines with transversal & angle, specified angle,
1120008	algebraic expressions
	Given two angle measures in triangle, determine & justify angle
1062102	measure
	Apply triangle angle sum theorem to determine angles, multiple
1613001	algebraic expressions
	Apply triangle exterior angle theorem to determine angles,
1613002	including algebraic expressions
8.9: Express	ions, Equations, & Relationships: Simultaneous Linear Equatio
8.9A(S)	
Skill Code	Description
	Determine & verify graphical solutions to systems of linear
400018	equations, slope-intercept form
	Graph systems of linear equations & determine solutions,
400080	including real-world context
	Given graph of system of linear equations, determine equations
	in slope-intercept form
400095	μη σιορε-μητεισερτ τοιτή
	imensional Shapes: Transformational Geometry
8.10: Two-D	
8.10: Two-D 8.10A(S)	imensional Shapes: Transformational Geometry
8.10: Two-D 8.10A(S) Skill Code	imensional Shapes: Transformational Geometry Description
8.10: Two-D 8.10A(S) Skill Code 1063014	Description Identify characteristics of transformations
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506	Description Identify characteristics of transformations
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S)	Description Identify characteristics of transformations Identify congruence transformations
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S) Skill Code	Description Identify characteristics of transformations Identify congruence transformations Description Description
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S) Skill Code 1063506	Description Identify characteristics of transformations Identify congruence transformations Description Description
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S) Skill Code 1063506 8.10C(R)	Description Identify characteristics of transformations Identify congruence transformations Description Identify congruence transformations
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S) Skill Code 1063506 8.10C(R) Skill Code	Description Identify characteristics of transformations Identify congruence transformations Description Identify congruence transformations Description Identify congruence transformations
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S) Skill Code 1063506 8.10C(R) Skill Code 1063001	Description Identify characteristics of transformations Identify congruence transformations Description Identify congruence transformations Description Identify congruence transformations Description Identify rule or reflected point on coordinate plane
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S) Skill Code 1063506 8.10C(R) Skill Code 1063001	Description Identify characteristics of transformations Identify congruence transformations Description Identify congruence transformations Description Identify congruence transformations Description Identify rule or reflected point on coordinate plane
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S) Skill Code 1063506 8.10C(R) Skill Code 1063001 1063003	Description Identify characteristics of transformations Identify congruence transformations Description Identify congruence transformations Description Identify rule or reflected point on coordinate plane Identify rule or rotated point on coordinate plane
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S) Skill Code 1063506 8.10C(R) Skill Code 1063001 1063003	Description Identify characteristics of transformations Identify congruence transformations Description Identify congruence transformations Description Identify rule or reflected point on coordinate plane Identify rule or rotated point on coordinate plane
8.10: Two-D 8.10A(S) Skill Code 1063014 1063506 8.10B(S) Skill Code 1063506 8.10C(R) Skill Code 1063001 1063003	Description Identify characteristics of transformations Identify congruence transformations Description Identify congruence transformations Description Identify rule or reflected point on coordinate plane Identify rule or rotated point on coordinate plane Identify rule or determine transformed point on coordinate plane

8.10D(S)	
Skill Code	Description
1638001	Identify scale factor of dilations, on coordinate plane
1638002	Identify scale factor of dilations, not on coordinate plane
1638007	Identify scale factor of dilations
	Determine variable scale factor or variable measurement of
1638102	dilated figures
1638100	Determine scale factor or perimeter of dilated figures
1638101	Determine scale factor or area of dilated figures
8.11: Two-D	imensional Shapes: Transformational Geometry
8.11A(S)	
Skill Code	Description
1153500	Given data, determine scatter plot
1153502	Identify linear & nonlinear associations in scatter plots
1153503	Identify positive & negative correlations in scatter plots
1153501	Identify scatter plots with clustered data
1153504	Identify outliers in scatter plots
1153505	Interpret scatter plots
8.11B(S)	miorprocedure, proce
Skill Code	Description
512050	Determine mean absolute deviation
1811003	Determine mean absolute deviation from dot plots
510500	Determine mean absolute deviation, real-world context
8.11C(N)	
Skill Code	Description
1148100	Identify simulations used to acquire simple random samples
8.12: Persor	nal Financial Literacy
8.12A(S)	
Skill Code	Description
209017	Determine simple interest & total amount
780100	Determine how interest rates affect total cost or loans
	Determine how lengths of loans affect total cost of loans *have
780101	students use an online interest calculator
8.12B(N)	
Skill Code	Description
	Determine cost of repaying loan *have students use an online
780102	interest calculator
	Determine how lengths of loans affect total cost of loans *have
780101	students use an online interest calculator
8.12C(S)	
Skill Code	Description

	Determine savings in loan repayment based on various lengths of
780501	repayment
780109	Determine growth of money invested regularly over time
8.12D(R)	
Skill Code	Description
209017	Determine simple interest & total amount
209018	Given simple interest earned, determine principal, rate, or time
209020	Determine interest compounded annually
780500	Determine annually compounded interest
209022	Determine & compare simple & compound interest
780502	Determine compound interest on savings & loans
8.12E(N)	
Skill Code	Description
	Identify or explain advantages & disadvantages of various
780104	payment methods
8.12F(N)	
Skill Code	Description
780106	Identify benefits & costs of financial responsibility
780105	Identify financially responsible decisions
	Identity infancially responsible decisions
8.12G(S)	identity infancially responsible decisions
8.12G(S) Skill Code	Description
Skill Code	Description
Skill Code 780505	Description Determine costs of one year of college education