7.2: Number & Operations: Rational Numbers	
7.2A(S)	
Skill Code	**Description**
147015	Determine relationships between subsets or rational numbers

7.3: Number & Operations: Rational Number Operations	
7.3A(S)	
Skill Code	**Description**
40011	Add positive & negative integers
159050	Add decimals, up to three decimal places
210086	Add fractions, including improper sums
204082	Add fractions, including imixed number
41013	Subtract integers, various signs, up to two digits
180060	Subtract decimals, up to three decimal places
210087	Subtract fractions, including improper fractions
204085	Subtract fractions, including mixed numbers
31101	Multiply integers, start one digit & advance to two digits
32080	Multiply decimals
33080	Multiply decimals, mixed signs
212080	Multiply fractions, including mixed signs
205081	Multiply fraction & mixed numbers, including mixed signs, mixed number directions
21004	Divide integers, both negative, up to three-digit dividend, up to two-digit divisor
21002	Divide integers, opposite signs, up to three-digit dividend, up to two-digit divisor
22002	Divide decimals or whole numbers
23080	Divide decimals mixed signs
212081	Divide frations, including mixed signs
205083	Divide fractions & mixed numbers, including mixed signs, mixed number directions
7.3B(R)	
Skill Code	**Description**
40055	Add integers, real-world context
210054	Add fractions, mixed signs, including improper sums, real-world context
41123	Determine differences between integers, mixed signs, real-world context
210055	Subtract fractions, mixed signs, including improper differences, real-world context.

Skill Code	Description
710001	Add & subtract decimals, up to three decimal places, real-world context
31050	Multiply positive integers, real-world context
31051	Multiply integers, mixed signs, real-world context
1700050	Multiply fractions, positive, real-world context
33051	Multiply decimals, mixed signs, real-world context
21051	Divide integers, opposite signs, real-world context
1700052	Divide fractions & whole numbers, mixed signs, real-world context
22023	Divide deimals, up to three decimal places, real-world context

7.4: Proportionality: Represent & Solve

7.4A(R)

Skill Code	Description
301130	Given table of linear equation, determine rate of change
148038	Identify representation of proportional relationship, various representations, real-world context
148090	Determine or identify equivalent representations of proportional relationships
148100	Given table, determine constant of proportionality, graph, or equation
148500	Given equation, determine constant of proportionality, graph, or table
148053	Given equation, determine constant of proportionality, real-world context
148200	Given constant of proportionality, determine table, graph, or equation
148300	Given graph, determine constant of proportionality, table, or equation
148400	Determine equivalent representations of propotional relationships
148040	Given visual representation of proportional relationship, determine equation, table, & graph, real-world context
148039	Determine equations, tables, & graphs for proportional relationships, real-world context
222505	Given graph of linear relationship, determine table & equation, real-world context

7.4B(S)

Skill Code	Description
222001	Determine unit rates, whole numbers, real-world context
222003	Determine unit rates, fractions, real-world context

222005	Given rate, convert time unit to determine quantity over time interval, real-world context
222009	Given rate of travel, determine distance or time
222007	Given proportional relationship, determine specified quantity, real-world context
222011	Determine & apply unit rates to determine specified quantities, real-world context
222050	Determine or apply unit rates, real-world context

7.4C(S)

Skill Code	Description
148601	Identify tables showing proportional relationship
148602	Identify graphs showing proportional relationship
148603	Identify equations showing proportional relationship
148600	Identify tables, graphs, or equations showing proportional relationship
148050	Given table, determine constant of proportionality
148051	Given graph, determine constan, including real-world context
148052	Given equation, determine constant of proportionality
148053	Given equation, determine constant of proportionality, real-world context

7.4D(R)

Skill Code	Description
222038	Determine unit rates, mixed numbers, real-world context
224038	Determine specified quantity in proportional relationship, including mixed numbers, real-world context
209006	Given percent & whole, determine part, real-world context
209005	Given part & percent, determine whole, real-world context
209013	Determine percent of change, including real-wolrd context
209019	Determine increases involving tips, tax & markups
209021	Determine decreases involving sales, discounts, & markdowns
209015	Determine tip, tax, discount, or markup

7.4E(S)

Skill Code	Description
1812017	Convert between customary & metric using dimensional analysis
1812020	Convert between customary & metric, proportion bias
1812018	Convert between customary & metric using unit rates
1812021	Convert between customary & metric using conversion graphs
1812023	Convert between customary & metric, real-world context

Skill Code	Description
1812037	Convert between customary & metric
1812028	Convert between customary & metric, including multi-step
1812022	Convert between customary & metric using multiple representations of conversion factor

7.5: Proportionality: Geometry

7.5A(S)

Skill Code	Description
1062870	Given similar figures, identiy proportion of side lengths, triangles & quadrilaterals
1062871	Given similar figures, identiy proportion of side lengths, image orientation differ
1062046	Given similar figures, identiy proportion of side lengths

7.5B(S)

Skill Code	Description
1062880	Estimate diameter or circumference & identify equations using pi

7.5C(R)

Skill Code	Description
1060010	Identify similar polygons
1060017	Identify corresponding parts of similar figures
1060011	Determine parts using similar triangles, including real-world context
1062048	Determine dimensions in similar figures, whole number dimensions
1062047	Determine dimensions in similar figures
1062045	Determine dimensions using similar figures & indirect measurements
1062080	Given scale, determine specified dimension in saled figure, real-world context
1062081	Given scale, determine area in scaled figure, real-world context
1060014	Given scale factor or length of corresponding side, determine perimeter or area of similar triangle
1638003	Given scale factor, determine dimension

7.6: Proportionality: Probability & Statistics

7.6A(S)

Skill Code	Description
512081	Determine sample spaces
512082	Determine sample spaces, compound events
512090	Determine size of sample spaces, compound events

7.6B(N)

Skill Code	Description
512087	Identify simulations to model probability events
7.6C(S)	
Skill Code	**Description**
512111	Determine predicted values, experimental probability
512084	Determine predicted values, experimental probability, compound events
512083	Determine predicted values, experimental or theoretical probability
7.6D(S)	
Skill Code	**Description**
512085	Determine predicted values, theoretical probability
512086	Determine predicted values, theoretical probability, compound events
7.6E(S)	
Skill Code	**Description**
512101	Determine theoretical probabilities, fraction answers
600002	Determine probabilities & complementary probabilities of single events, including visual models
600054	Determine probabilities & complementary probabilities of single events as fractions, decimals, or perents, including visual models
7.6F(N)	
Skill Code	**Description**
512111	Determine predicted values, experimental probability
7.6G(R)	
Skill Code	**Description**
1413006	Given table,determine equivalent bar graph, including double bar graph
1302009	Determine solutions to problems involving bar graphs & line graphs
510012	Solve problems involving interpretation of pie charts
510010	Solve problems involving interpretation of pie charts displayed using fractions, decimals, or percents
1413019	Solve problems involving bar graphs
512009	Determine mean, median, mode, or range from various graphs
7.6H(R)	
Skill Code	**Description**
512051	Classify probabilities by levels of likelihood
512057	Determine predicted values or compare likelihood of events

7.6I(R)	
Skill Code	**Description**
512109	Determine experimental probabilities, fraction answers
600052	Determine probabilities of single events
512117	Determine "and" probalities, independent events, visuals provided
512113	Determine "and" probalities, independent events, two distinct sample spaces
600053	Determine "and" probalities, dependent events, multiple choice

7.7: Expressions, Equations, & Relationships: Linear Relationships

7.7A(R)	
Skill Code	**Description**
306406	Given linear equation, fill table, integer slope
301020	Identify type of slope
760041	Given slope-intercept equation, determine table & identify graph
306200	Given table, determine linear equation, integer slope
307731	Identify equivalaent linear graphs & equations in slope-intercept form
760036	Given linear graph, determine y-values in table & equation
301015	Given linear graph, determine rate of change
302025	Given linear graph, determine equation in slope-intercept form & specific value, various scales
319001	Given description & linear equation, fill table & determine solution, real-world context
301133	Given description, determine equation & specific value, real-world context

7.8: Expressions, Equations, & Relationships: Volume Relationships

7.8A(N)	
Skill Code	**Description**
1042080	Identify & determine relationship between volumes of rectangular prisms& pyramids

7.8B(N)	
Skill Code	**Description**
1042801	Identify & determine relationships between volumes or triangular prisms & pyramids
1042082	Identify & determine relationships between volumes or prisms & pyramids

7.8C(N)	
Skill Code	**Description**

1152100	Identify approximate formulas for circumference & area of circles

7.9: Expressions, Equations, & Relationships: Geometry

7.9A(R)

Skill Code	Description
1040063	Given sides of rectangle, determine area, model provided
1042003	Given base area & edge or all edges, determine volume of rectangular prism
1042032	Determine volume of rectangular prisms, whole numbers or decimals
1062016	Determine volumes of rectangular prisms, fractional dimensions
1062024	Determine volumes or rectangular prisms, rational dimensions, real-world context
1042004	Given volume, determine edges of rectangular prisms
1042002	Determine volume or edge of rectangular prisms, whole numbers
1062014	Determine volume or dimension of rectangular prisms, fractional dimensions
1042030	Determine volume of pyramids, whole numbers
1042049	Given volume, determine dimension of pyramid
1062026	Determine volumes or rectangular & triangular prisms, fractional dimensions

7.9B(R)

Skill Code	Description
1062042	Given radius or diameter, determine circumference
1062860	Determine circumference of circle, exact answers, multiple choice, including real-world context
1062040	Given radius or diameter, determine area
1062850	Determine area of circle, exact answers, including real-world context
1062003	Given radius or diameter, determine area or circumference
1032043	Determine area or circumference of circle
1062025	Determine areas of semicirles & quarter circles

7.9C(R)

Skill Code	Description
1040063	Given sides of rectangle, determine area, model provided
1040064	Determine area of parallelograms, models provided
1707003	Given base & height of rectangle or parallelogram, determine area

Skill Code	Description
1707004	Given area & one dimension of rectangle or parallelogram, determine missing dimension
1062031	Determine areas & dimensoins of triangles & trapezoids
1062027	Determine area of composite figures, rectangle with various figures attached
1042071	Determine area of composite figures, rectangle with various figures attached, no circular parts
1040205	Determine area of composite figures
1040038	Determine area of composite figures, real-world context
1040039	Determine area of shaded region between nested shapes

7.9D(S)

Skill Code	Description
1042170	Given net, determine surface area of prisms
1042171	Given net, determine surface area of pyramids
1062052	Given 3D model & net on grid, determine surface area of prisms & pyramids
1042173	Given net, determine lateral surface area of prisms
1042174	Given net, determine lateral surface area of pyramids
1042175	Given net, determine lateral surface area of prisms & pyramids, real-world context
1042176	Given net, determine lateral surface area & lateral surface area of prisms & pyramids, including real-world context
1062054	Given 3D model & net on grid, determine surface area of prisms
1062056	Given 3D model & net on grid, determine surface area of pyramids
1062058	Given 3D model & net on grid, determine laterla surface area of prisms
1062059	Given 3D model & net on grid, determine laterla surface area of pyramids
1062060	Given 3D model & net on grid, determine lateral surface area of prisms & pyramids

7.10: Expressions, Equations, & Relationships: Represent Situations

7.10A(S)

Skill Code	Description
83001	Identify words or phrases that indicate specified operation or comparison
70050	Determine one-step linear equations, real-world context
1813001	Determine one-step linear inequalities, rational numbers, including real-world context
71050	Determine two-step linear equations, real-world context

Skill Code	Description
1813002	Determine two-step inequalities, rational numbers, including real-world context

7.10B(S)

Skill Code	Description
118031	Solve & graph two-step inequalities, integers
118050	Solve & graph two-step inequalities, fractions
118051	Solve & graph two-step inequalities, decimals
118080	Solve & graph two-step inequalities

7.10C(S)

Skill Code	Description
70051	Given one-step equation, identify real-world situation represented by equation
71051	Given two-step linear equation, identify real-world situation represented by equation
1802003	Determine equations or identify real-world situations represented by one-step or two-step equations
1813003	Given one-step inequality, identify real-world problem modeled by inequality
1813004	Given two-step inequality, identify real-world problem modeled by inequality

7.11: Expressions, Equations, & Relationships: Solve

7.11A(R)

Skill Code	Description
71053	Solve two-step linear equaltions, algebra tiles
71003	Solve x/a +/- b = c
82080	Solve two-step linear equaltions
1802001	Solve problems that can be represented by two-step equations, real world context
69099	Solve (ax +/-b)/c = d
117085	Solve two-step inequalities modeled with algebra tiles
81004	Solve two-step linear equaltions, rounded solutions
1803001	Determine & solve two-step inequalities, greater than, real-world context
1803002	Determine & solve two-step inequalities, less than, real-world context
117080	Solve two-step inequalities

7.11B(S)

Skill Code	Description
71052	Determine if given value is solution to two-step linear equations
117090	Determine if given value is solution to two-step inequality

7.11C(S)	
Skill Code	**Description**
1062007	Identify angle pairs
1062111	Determine angle measures in figures, algebraic expressions
1062009	Determine angle measures, including figures or descriptions
1110112	Given vertical angles, determine angle measure, one algebraic expression
1110111	Given supplementary angles, determine angle measure, one algebraic expression
1110113	Given complementary angles, determine angle measure, one algebraic expression
1062100	Determine angle measures in figures, one-step algebraic expressions
1062102	Given two angle measures in triangle, determine & justify angle measure
1613005	Apply triangle angle sum theorem to determine angles, algebraic expressions
1619005	Determine angle measure in isosceles triangle, at most one algeraic expression
7.12: Measurement & Data: Analyze	
7.12A(R)	
Skill Code	**Description**
1811004	Determine & compare means from two dots plots
1811005	Determine & compare medians from two dots plots
510080	Solve problems involving interpretation of stacked box plots, real-world context
7.12B(S)	
Skill Code	**Description**
512080	Determine inferences from samples
7.12C(S)	
Skill Code	**Description**
512095	Compare data from two samples, various representations
7.13: Personal Financial Literacy	
7.13A(S)	
Skill Code	**Description**
209026	Determine tax
209080	Determine income tax for earned wages
7.13B(S)	
Skill Code	**Description**
780050	Determine budget allocations
780051	Classify assets & liabilities

780052	Determine net worth, assets, & liabilities

7.13C(S)	
Skill Code	**Description**
780051	Classify assets & liabilities
780052	Determine net worth, assets, & liabilities

7.13D(S)	
Skill Code	**Description**
780053	Determine minimum income necessary to balance budget
780054	Determine minimum hourly wage necessary to balance budget

7.13E(S)	
Skill Code	**Description**
209017	Determine simple interest & total amount
780500	Determine annually compounded interest
209022	Determine & compare simple & compound interest
780502	Determine compound interest on savings & loans
209018	Given simple interest earned, determine principal, rate, or time
503001	Calculate investment value, annual compounding
503003	Calculate investment value, various compounding
780501	Determine savings in loan repayment based on various lengths of repayment

7.13F(S)	
Skill Code	**Description**
209025	Determine tips
209027	Determine markups
209023	Determine commissions
209081	Determine & compare savings from sales, rebates, & coupons
209019	Determine increases involving tips, tax, & markups
209021	Determine decreases involving sales, discounts, & markdowns
209015	Determine tips, tax, discount, or markup