6.2: Number & Operations: Rational Numbers

6.2A(S)

Skill Code	Description
50059	Classify rational numbers by definitions
50061	Classify rational numbers using graphic organizers
50060	Classify rational numbers, including graphic organizers

6.2B(S)

Skill Code	Description
58001	Determine opposites of numbers
49001	Determine absolute value of integers
49010	Determine absolute value of integers, including real-world context
49003	Determine absolute value of rational numbers

6.2C(S)

Skill Code	Description
117040	Interpret inequalities as statements about position
58002	Identify integers on number lines, negative
58003	Identify decimals on number lines, positive
58004	Identify rational numbers on number lines, negative
58011	Identify rational numbers on number lines, vertical
58020	Identify or plot rational numbers on number lines & interpret, real-world context
58010	Identify or plot rational numbers on number lines
58402	Identify & compare rational numbers on number lines

6.2D(R)

Skill Code	Description
147008	Order positive fractions
147003	Order decimals & fractions
147011	Order positive decimals & fractions
147014	Given set or list, order rational numbers, real-world context
147013	Given table, order rational numbers, real-world context
147012	Order rational numbers, no radicals, no exponents
147016	Order real numbers, positive exponents, percents are whole, including real-wolrd context

6.2E(S)

Skill Code	Description
208031	Identify & determine decimal equivalent of fractions, denominator less than 10
205018	Determine visual representation & fraction quotient of division problems

Skill Code	Description
1810010	Identify expressions & equations representing multiplication & division of rational numbers
208083	Convert fractions to decimals, up to two decimal places, real-world context
208080	Convert decimals to fractions, real-world context
208082	Convert percents to fractions, real-world context
205044	Determine fraction & mixed number equivalence of division problems, real-world context

6.3: Number & Operations: Rational Numbers Operation

6.3A(S)

Skill Code	Description
205029	Determine reciprocals of whole numbers or fractions
205034	Determine equivalent division & multiplication expressions using reciprocals
205026	Divide whole numbers & unit fractions, area models
205025	Divide whole numbers & unit fractions, fraction strips
205024	Divide whole numbers & unit fractions, number lines
205014	Divide whole numbers & unit fractions, including unit fraction multiplication, real-world context
205027	Divide whole numbers & fractions, various models

6.3B(S)

Skill Code	Description
1810060	Determine products & identify whether quantities are increased or decreased when multiplied by fraction
1423063	Determine whether quantities are increased or decreased when multiplied by fractions

6.3C(S)

Skill Code	Description
1720002	Determine number of zero pairs or evaluate expressions using counters
103001	Given number line model, determine or interpret integer sum expression, same sign
103011	Given number line model, determine or interpret integer sum expression, mixed signs
1800001	Subtract integers on number line, same sign
1730004	Multiply positive integers using number line models, including negatives shown on number line
1730001	Multiply positive integers times negative integers using number line models
1720012	Multiply integers using counters

Skill Code	Description
1740002	Divide integers, opposite signs, up to two-digit dividend, number line model
24029	Determine quotient & remainder as fration, two-digit dividend, up to two-digit divisor.

6.3D(R)

Skill Code	Description
40055	Add integers, real-world context
41103	Determine differences between integers, various signs, real-world context
77010	Multiply whole numbers, up to four-digit & up to two-digit, real-world context
31050	Multiply positive integers, real-world context
31051	Multiply Integers, mixed signs, real-world context
77011	Divide whole numbers, up to five-digit dividend, up to three-digit divisor, real-world context
21050	Divide integers, same signs, real-world context
21051	Divide integers, opposite signs, real-world context

6.3E(R)

Skill Code	Description
30074	Multiply whole numbers, two-digit & one-digit, real-world context
30076	Multiply whole numbers, two-digit & two-digit, real-world context
30073	Multiply whole numbers, three-digit & one-digit, real-world context
205041	Multiply whole numbers & fractions, real-world context
1804011	Multiply decimals & fractions, real-world context
280012	Divide positive integers for decimal result, real-world context
280005	Determine quotient, up to two-digit divisor, real-world context
205014	Divide whole numbers & unit fractions, uncluding unit fraction multiplication, real-world context

6.4: Proportionality: Understand Proportional Relationships

6.4A(S)

Skill Code	Description
760100	Identify situations modeled by additive & multiplicative relationships
760104	Identify equivalent representations of additive & multiplicative relationships
720501	Given graph of linear points, identify table
760102	Identify graphs of additive & multiplicative relationships

Skill Code	Description
760007	Given table or graph, identify dependent or independent variable
720500	Given linear equation, identify table, including decimals & fractions
720502	Given linear equation, identify table, including decimals & fractions

6.4B(R)

Skill Code	Description
222050	Determine or apply unit rates, real-world context
220030	Compare rates
220031	Compare rates or determine specified values in proportional relationships, real-world context
222030	Determine & compare unit rates, real-world context

6.4C(S)

Skill Code	Description
220043	Given double number line model, determine percent or specified quantity, real-world context
220041	Determine specified values in ratios, strip diagrams, real-world context
224011	Determine ratios, real-world context
224010	Interpret & apply ratios
224013	Given ratio, determine relationship between ratio terms, real-world context
224015	Given proportional relationship as ratio, determine specified quantity, real-world context
220040	Determine specified values in proportional relationships, real-world context
220042	Determine ratios or specified quantities from table or identify table from given ratio, real-world context

6.4D(S)

Skill Code	Description
222043	Given double number line, determine unit rate, real-world context
222041	Determine unit rates, strip diagrams, real-world context
222042	Determine unit rates, ratio tables, real-world context
222001	Determine unit rates, whole numbers, real-world context
222007	Given proportional relationship, determine specified quantity, real-world context
222006	Given unit rate, determine specified value in proportional relationship, real-world context
222009	Given rate of travel, determine distance or time

6.4E(S)

Skill Code	Description
220060	Identify percents, decimal grids
220058	Identify percents, area models
220059	Identify percents, strip diagrams, real-world context
220055	Determine part to whole ratio, decimal grids
220050	Determine part to part ratio, various models
224005	Determine rations, various forms, real-world context
208072	Convert decimals to fractions or mixed numbers, including repeating decimals of thirds

6.4F(S)

Skill Code	Description
203053	Identify fractions on strip diagrams
203055	Identify fractions or mixed numbers on decimal graid
220060	Identify percents, decimal grids
203057	Identify common fractions or mixed numbers on number line
209061	Plot or locate percents on number line

6.4G(S)

Skill Code	Description
208080	Convert decimals to fractions, real-world context
208081	Convert fractions to decimals, real-world context
208082	Convert percents to fractions, real-world context

6.4H(R)

Skill Code	Description
222023	Identify measurement conversion unit rates
222024	Identify measurement conversion rates
222025	Given unit conversion rate, convert measurement units
1812003	Convert between customary units of weight & mass
1812005	Convert between metric units of volume & capacity
222026	Solve proportions to convert measurement units
222005	Given rate, convert time unit to determine quantity over time interval, real-world context
222007	Given proportional relationship, determine specified quantity, real-world context
222009	Given rate of travel, determine distance or time

6.5: Proportionality: Solve Proportional Relationships

6.5A(S)

Skill Code	Description
222026	Solve proportions to convert measurement units
222506	Given proportional relationship, determine specified quantity, including decimals, real-world context

Skill Code	Description
222007	Given proportional relationship, determine specified quantity, real-world context
222009	Given rate of travel, determine distance or time
222507	Given graph of proportional relationship, determine table & equation, real-world context

6.5B(R)

Skill Code	Description
220072	Given part & percent, identify model & determine whole, real-world context
209005	Given part & percent, determine whole, real-world context
209006	Given percent & whole, determine part, real-world context
209011	Given part & whole, determine percent, real-world context
209030	Given percent, identify table that shows percent
209031	Determine specified values in tables involving percents
209007	Given part & percent, determine whole

6.5C(S)

Skill Code	Description
208073	Given model, determine & identify fractions, decimals, & percents
208027	Convert decimals to fractions & percents
208028	Convert percents to decimals & fractions
208074	Identify part of whole, real-world context

6.6: Expressions, Equations, & Relationships: Relationships

6.6A(S)

Skill Code	Description
760005	Given table, identify dependent or independent variable
760004	Given equation, identify dependent or independent variable
760007	Given table or graph, identify dependent or independent variable
760006	Given description, identify dependent or independent variable

6.6B(S)

Skill Code	Description
760200	Given additive relationship in table, determine equation
760201	Given multiplicative relationship in table, determine equation
760020	Given multiplicative relationship in table, determine equation, real-world context
760101	Given table, determine additive or multiplicative equation
760202	Given additive or multiplicative relationship in table, determine equation

Skill Code	Description
760051	Determine tables or equations of additive & multiplicative relationships
760008	Identify equivalent representations of additive & multiplicative relationships, including decimals & fractions

6.6C(R)

Skill Code	Description
760301	Identify tables that represent real-world situations, y=mx or y=x+b
760300	Identify situations modeled by tables or equations, y=mx or y=x+b
760020	Given multiplicative relationship in table, determine equation, real-world context
319001	Given description & linear equation, fill table & determine solution, real-world context
760303	Determine equations that represent real-world situations, y=mx or y=x+b
760302	Determine equations or identify graphs that represent real-world situations, y=mx or y=x+b
372003	Given description of linear equation, identify graph, integer slope, real-world context

6.7: Expressions, Equations, & Relationships: Concepts

6.7A(R)

Skill Code	Description
104300	Identify equivalent expressions involving prime factorization
1810043	Identify equivalent expressions using order of operations
181401	evaluate numerical expressions, decimals
1814100	Evaluate numerical expressions, fractions
184102	Evaluate numerical expressions, decimals & fractions
42014	Evaluate numerical expressions, four integers, including multiplication & exponents
48021	Evaluate numerical expressions, including rationals & up to two sets of grouping symbols
48017	Evaluate numerical expressions, # + #(# + #)^#

6.7B(S)

Skill Code	Description
50044	Determine definitions of arithmetic vocabulary, fill in the blank
50048	Determine definitions of relationship vocabulary, fill in the blank
50050	Identify parts of expression
50051	Identify multiple parts of expressions

6.7C(S)	
Skill Code	Description
1815100	Identify equivalent numerical expressions using counters
1815102	Identify equivalent algebraic expressions using algebra tiles
1708013	Identify equivalent expressions or determine simplified expressions
152010	Identify equivalent expressions involving distribution, two or more terms
152007	Simplify algebraic expressions, one variable, distribute once, three or four grouped terms
152004	Simplify algebraic expressions, two variables, positive integer coefficients

6.7D(R)	
Skill Code	Description
51021	Simplify algebraic expressions, one variable, integer coefficients
51001	Simplify algebraic expressions, two variables, integer coefficients
152003	Simplify algebraic expressions, one variable, positive integer coefficients
51101	Simplify algebraic expressions, one variable, distribute once, integer multiplier
152011	Identify algebraic expressions, involving distribution, real-world context
139101	Identify equivalent algebraic expressions, including real-world context
139100	Evaluate * identify equivalent numerical expressions, including real-world context
139011	Identify properties used in numerical & algebraic expressions

6.8: Expressions, Equations, & Relationships: Geometry

6.8A(S)	
Skill Code	Description
1614001	Order angles in triangles
10601100	Classify triangles by angles
1062017	Given two angle measures in triangle, determine angle measure
1062102	Given two angle measures in triangle, determine & justify angle measure
1614100	Determine smallest & largest sides or angles in triangle
1616002	Apply triangle inequality theorem to determine range of values for unknown side

Skill Code	Description
1613100	Apply triangle angle sum theorem to determine appropriate equation & angles, algebraic expressions
1062001	Apply triangle inequality theorem to determine side lengths
1040101	Determine equations that represent area of parallelograms, real-world context

6.8B(S)

Skill Code	Description
1630102	Determine area of triangles using models that decompose & rearrange parts
1630101	Determine area of trapezoids using models that decompose & rearrange parts
1630100	Determine area of parallelograms using models that decompose & rearrange parts
1630103	Determine area using models that decompose & rearrange parts

6.8C(S)

Skill Code	Description
1040100	Determine equations that represent area of rectangles, real-world context
1040101	Determine equations that represent area of parallelograms, real-world context
1040103	Determine equations that represent area of triangles, real-world context
1040102	Determine equations that represent area of trapezoids, real-world context
1042100	Determine equations for volume of rectangular prisms, rational dimensions, real-world context

6.8D(R)

Skill Code	Description
1040063	Given sides of rectangle, determine area, model provided
1040064	Determine area of parallelograms, model provided.
1707003	Given base & height of rectangle or parallelogram, determine area
1062021	Determine area of triangles & trapezoids
1707009	Given volume & two dimensions of rectangular prism, determine missing dimension
1042507	Determine volume or edge of rectangular prisms, whole numbers, decimals, fractions, real-world context.
1707008	Determine volumes of cubes & rectangular prisms.

6.9: Expressions, Equations, & Relationships: Represent Situations

6.9A(S)

Skill Code	Description
1802501	Determine one-step equations, including decimals, real-world context
1802500	Given one-step linear equation, identify real-world situation represented by equation
1803010	Represent real-world problems as inequalities
1803601	Determine one-step inequalities, including real-world context
1803100	Identify one-step inequalities that model real-world problems or interpret inequality components
1803012	Given one-step inequality, identify real-world problem modeled by inequality, rational numbers
1803011	Determine, solve, & graph one-step inequalities, including real-world context

6.9B(S)

Skill Code	Description
118001	Solve & graph one-step inequalities, x + #
118003	Solve & graph one-step inequalities, x - #
118005	Solve & graph one-step inequalities, x +/- #
118011	Solve & graph one-step inequalities, a * x, a > 0
118013	Solve & graph one-step inequalities, a * x, a < 0
118015	Solve & graph one-step inequalities, a * x
118021	Solve & graph one-step inequalities, x/a, a > 0
118023	Solve & graph one-step inequalities, x/a, a < 0
118025	Solve & graph one-step inequalities, x/a

6.9C(S)

Skill Code	Description
1802501	Determine one-step equations, including decimals, real-world context
1802500	Given one-step linear equation, identify real-world situation represented by equation
1803601	Determine one-step inequalities, including real-world context
1803012	Given one-step inequality, identify real-world modeled by inequality, rational numbers.

6.10: Expressions, Equations, & Relationships: Solve

6.10A(R)

Skill Code	Description
1709001	Determine addition equations, real-world context
1709010	Solve addition equations, real-world context

Skill Code	Description
1709002	Determine & solve addition equations, including real-world context
1709003	Determine multiplication equations, real-world context
1709004	Determine & solve multiplication equations, including real-world context
1709100	Determine & solve multiplication equations, real-world context
1803100	Identify one-step inequalities that model real-world problems or interpret inequality components
1803011	Determine, solve & graph one-step inequalities, including real-world context

6.10BS)

Skill Code	Description
1709014	Identify equations with given solution
750600	Solve one-step linear equations, rationals
1708010	Identify values that solve inequalities, variable & constant on left side
1708011	Identify values that solve inequalities, variable & constant on right side
1708007	Identify values that solve inequalities, constant minus variable on right side
1708006	Identify values that solve inequalities, constant minus variable on left side

6.11: Measurement & Data: Coordinate Plane

6.11A(R)

Skill Code	Description
303003	Given integer point on graph, determine coordinates
303004	iven integer point on graph, determine coordinates, point on axis
303005	Given lattice point, determine coordinates
303011	Given rational point, determine location on coordinate plane
303014	Plot or identify rational points on coordinate plane

6.12: Measurement & Data: Analyze

6.12A(S)

Skill Code	Description
730005	Given data, identify stem & leaf plot
730004	Given data represented in various ways, identify dot plot
1153509	Given various representations of data, determine histogram
1153095	Given data, determine statistical display
730006	Given data, represent with dot plot or stem & leaf plot
510027	Given boxplot, determine values from five-number summary

Skill Code	Description
511001	Solve problems involving interpretation of box plots

6.12B(S)

Skill Code	Description
510007	Given various representations of data, identify outlier
1153005	Determine or interpret shapes & features of graphs
512053	Determine characteristics of boxplots
512060	Identify measures of center based on data distribution
1153006	Determine or interpret measures of center & spread from graphs

6.12C(R)

Skill Code	Description
510001	Determine mean, median, mode & range
512052	Determine interquartile range of data
510017	Determine mean, median, mode or range from stem & leaf plots
510009	Given various representations of data, identify mean, median, mode, & range
511001	Solve problems involving interpretation of box plots

6.12D(R)

Skill Code	Description
730005	Given data, identify stem & leaf plot
1413011	Given bar graph, determine equivalent table
1153094	Interpret two-way frequency tables, marginal distribution
730200	Solve one-step problems from stem & leaf plots, real-world context
730201	Solve one-step problems from double bar graphs, real-world context
1600002	Solve problems involving interpretation of various graphs
730203	Solve one-step problems from frequency & relative frequency tables, real-world context
1153510	Determine or interpret percentage bar graphs
1153506	Determine two-way frequency tables

6.13: Measurement & Data: Solve

6.13A(R)

Skill Code	Description
511002	Determine mean, median, mode or range from stem & leaf plots
510027	Given boxplot, determine values from five-number summary
510092	Determine five-number summary, including box plots
1302009	Determine solutions to problems involving bar graphs & line graphs

Skill Code	Description
510048	Solve problems involving five-number summary
1413500	Solve problems involving dot plots
510049	Solve problems involving interpretation of histograms
511010	Solve problems involving interpretation of box plots & stem & leaf plots

6.13B(S)

Skill Code	Description
512053	Determine Characteristics of boxplots
512070	Identify variability in real-world situations

6.14: Personal Financial Literacy

6.14A(S)

Skill Code	Description
780507	Given features & costs, determine best financial institution based on specified conditions

6.14B(S)

Skill Code	Description
780508	Determine similarities & differences between debit & credit cards

6.14C(S)

Skill Code	Description
780059	Balance check register

6.14D(N)

Skill Code	Description
780060	Identify positive & negative factors in establishing credit history

6.14E(S)

Skill Code	Description
780061	Solve problems involving information on credit report

6.14F(S)

Skill Code	Description
780062	Identify value of credit report

6.14G(S)

Skill Code	Description
780144	Determine budget allocations for spending, saving, & giving
780063	Identify methods of college payment
780503	Estimate costs of two-year college education
780504	Estimate costs of four-year college education

6.14H(S)

Skill Code	Description
780064	Determine annual income
780069	Determine lifetime income