4.2: Number & Operations: Place Value

4.2A(S)

Skill Code	Description
55100	Identify numbers with specific digit equal to 10 times digit to right
55070	Identify numbers with specific digit equal to digit to right divided by 10, standard notation

4.2B(R)

Skill Code	Description
55032	Determine equivalent representations of standard & expanded notations, whole numbers
55033	Determine equivalent representations of standard & expanded notations, decimals
55031	Convert between standard & expanded notations, including place vale words

4.2C(S)

Skill Code	Description
55043	Compare whole numbers up to 1,000,000,000
55047	Order whole numbers up to 1,000,000,000, real-world context
55048	Order whole numbers up to 1,000,000,000, real-world context
55049	Order whole numbers up to 1,000,000,000, real-world context

4.2D(S)

Skill Code	Description
43001	Round whole numbers to specified place value, up to hundred-thousand

4.2E(S)

Skill Code	Description
55061	Given tenths model, identify decimal
55062	Given hundredths model, identify decimal
55063	Given hundredths model, identify decimal as monetary amount
55055	Determine value of decimal model, including money

4.2F(S)

Skill Code	Description
55058	Order decimal models
55044	Order decimals up to 1,000,000,000
55103	Order decimals up to two decimal places, including real-world content
55057	Compare decimal models, up to three models
55056	Compare or order decimal models

Skill Code	Description
55045	Compare & order decimals up to 1,000,000,000, real-world context
55046	Compare or order numbers up to 1,000,000,000

4.2G(R)

Skill Code	Description
208075	Convert decimals to fractions, unreduced
208051	Convert decimals to unreduced fractions, real-world context
208076	Convert decimals to mixed numbers, unreduced
208010	Convert fractions to decimals, denominator power of 10
208011	Convert fractions to decimals, denominator factor of power of 10
208043	Identify decimal equivalent of fractions, real-world context
208044	Given model, determine fraction & decimal equivalents, unreduced

4.2H(S)

Skill Code	Description
58200	Given range & increment, identify blank number line
58014	Identify decimals on number lines, vertical number lines, positives
58109	Determine location of rational numbers on number line

4.3: Number & Operations: Fractions

4.3A(S)

Skill Code	Description
203041	Decompose fractions or mixed numbers into sum of fractions, visual models
203039	Decompose fractions or mixed numbers into sum of fractions & determine equivalent fractions & mixed numbers
203035	Decompose fractions or mixed numbers into sum of fractions, including visual models & real-world context

4.3B(S)

Skill Code	Description
203038	Decompose fractions into sum of fractions, visual models
203036	Decompose fractions into sum of fractions
203037	Decompose fractions or mixed numbers into sum of fractions, real-world context

4.3C(S)

Skill Code	Description
203102	Determine equivalent fractions, strip diagrams
203100	Determine equivalent fractions, number lines
203101	Determine equivalent fractions, area models

Skill Code	Description
203021	Identify or determine equivalent fraction components or fractions

4.3D(R)

Skill Code	Description
200008	Compare fractions, different denominators
203104	Compare two fractions, different denominators, area models
203103	Compare two fractions, different denominators, number lines
203105	Compare two fractions, different denominators, strip diagrams

4.3E(R)

Skill Code	Description
204021	Add fractions, common denominators, real-world context
204202	Add mixed numbers, common denominators
204022	Subtract fractions, common denominators, real-world context
204203	Subtract mixed numbers, common denominators
204027	Add & subtract fractions, fraction strips
204061	Identify expressions that represent addition or subtraction of unreduced fractions modeled by area models
204060	Identify expressions that represent addition or subtraction of unreduced fractions modeled on number lines
204032	Given model, determine or interpret addition & subtraction of fractions
204041	Determine & evaluate expressions representing sums & differences of fractions

4.3F(S)

Skill Code	Description
204123	Given addition expression of two fractions, identify expressions using fourths that best estimates sums
204124	Given subtraction expression of two fractions, identify expression using fourths that best estimates difference
204125	Given addition or subtraction expression of two fractions, identity expression using fourths that best estimate result

4.3G(S)

Skill Code	Description
58022	Plot decimals on number lines, increment 0.1 or 0.01
58024	Identify or plot decimals on number lines, increment 0.1
58501	Identify or plot decimals on number lines, increment 0.5
58500	Identify or plot decimals on number lines, increment 0.2
58502	Identify or plot decimals on number lines
58025	Identify or plot decimals or determine lengths on number line, increment 0.01
58021	Identify or plot fractions or determine lengths on number line

Skill Code	Description
58023	Identify or plot decimals or fractions on number lines

4.4: Number & Operations: Whole numbers & Decimals

4.4A(R)

Skill Code	Description
137052	Add Three- & four -digit whole numbers, real-world context
138027	Subtract whole numbers, six-digits & five- or six-digit, real-world context
710004	Add & subtract decimals, up to two decimal places, real-world context
1809035	Add or subtract whole numbers or decimals, real-world context
170025	Add & subtract decimals, up to two decimal places, real-world context

4.4B(S)

Skill Code	Description
30060	Determine expanded notation or place value representations
30096	Multiply 10 & two-digit whole number
30061	Multiply 100 & two-digit whole number
30062	Multiply whole numbers, two-digit & 10 or 100
30063	Multiply multiples of 10 & one-digit whole numbers, real-world context
30064	Multiply multiples of 100 & one-digit whole numbers, real-world context
30065	Multiply multiples of 10 or 100 & one-digit whole numbers, real-world context
30066	Multiply multiples of 10 or 100 & one- or two-digit whole numbers, real-world context

4.4C(S)

Skill Code	Description
30069	Multiply whole numbers using area models, two-digit & two-digit
30070	Multiply whole numbers by decomposing factors, two-digit & two-digit
30071	Multiply whole numbers using area models or decomposition, two-digit & two-digit

4.4D(S)

Skill Code	Description
30074	Multiply whole numbers, two-digit & one-digit, real-world context
30011	Multiply whole numbers, three-digit & one-digit

Skill Code	Description
30073	Multiply whole numbers, three-digit & one-digit, real-world context
30013	Multiply whole numbers, four-digit & one-digit
30072	Multiply whole numbers, four-digit & one-digit, real-world context
30002	Multiply whole numbers, two-digit & two-digit
30075	Multiply whole numbers, two-digit & two-digit, real-world context

4.4E(S)

Skill Code	Description
1810124	Determine equivalence between area models & division equations
1810123	Determine equivalence between arrays & division equations
1810125	Determine division equations, real-world context
1810126	Determine equivalence between area models & division equations

4.4F(S)

Skill Code	Description
24008	Determine quotient & remainder, two-digit dividend, one-digit divisor
24010	Determine quotient & remainder, three-digit dividend, one-digit divisor
24012	Determine quotient & remainder, four-digit dividend, one-digit divisor
280013	Divide positive integers, up to four-digit dividend, one-digit divisor, real-world context

4.4G(S)

Skill Code	Description
43051	Round whole numbers to nearest ten
43052	Round whole numbers to nearest ten, real-world context
43053	Round whole numbers to nearest hundred
43054	Round whole numbers to nearest hundred, real-world context
43055	Round whole numbers to nearest thousand
43056	Round whole numbers to nearest thousand, real-world context
43062	Round whole numbers to nearest whole, ten, hundred, & thousand, real-world context

4.4H(R)

Skill Code	Description
77010	Multiply whole numbers, up to four-digits & up to two-digit, real-world context

Skill Code	Description
77012	Divide whole numbers, two- to four-digit dividend, one-digit divisor, real-world context
77011	Divide whole numbers, up to Five-digit dividend, up to three-digit divisor, real-world context
280002	Determine quotient or remainder, up to four-digit dividend, one-digit divisor, real-world context
77015	Solve multi-step problems involving whole number operations, initially add, real-world context
77016	Solve multi-step problems involving whole number operations, initially multiply, real-world context
77018	Solve multi-step problems involving whole number operations, initially divide, real-world context
280003	Solve multi-step problems involving divisioin of positive integers, real-world context

4.5: Algebraic Reasoning: Expressions & Equations

4.5A(R)

Skill Code	Description
77111	Solve multi-step problems involving models & whole number operations, initially add, real-world context
77117	Solve multi-step problems involving models & whole number operations, initially subtract, real-world context
77115	Solve multi-step problems involving models & whole number operations, initially multiply, real-world context
77113	Solve multi-step problems involving models & whole number operations, initially divide, real-world context
77116	Solve multi-step problems involving models & whole number operations, initially multiply, real-world context
77114	Solve multi-step problems involving equations & whole number operations, initially divide, real-world context

4.5B(R)

Skill Code	Description
89012	Given table, determine & extend patterns, addition
89013	Given table, determine & extend patterns, subtraction
89011	Given table, determine & extend patterns, multiplication
89024	Given table, determine relationship between input & output
89021	Determine missing elements in table, addition
89023	Determine missing elements in table, subtraction
89022	Determine missing elements in table, multiplication
89001	Identify relationships between patterns
89015	Determine specific element from pattern represented in table.

4.5C(N)

Skill Code	Description
1040123	Given model, identify formula & determine perimeter of rectangles
1040126	Given model, identify formula & determine area of rectangles
1040124	Determine side length or perimeter of squares
1630200	Given model, identify formula & determine area of square
1630201	Given model, identify formula & determine area of square or rectangle
1040125	Identify formula & determine perimeter of rectangles & squares
1040127	Identify formula & determine perimeter or area of rectangles & squares

4.5D(R)

Skill Code	Description
1040142	Determine perimeter of rectangles, real-world context
1040014	Given sides of rectangle, determine perimeter, real-world context
1040140	Given perimeter of rectangle & one side, determine dimension
1040021	Given perimeter & one dimension of rectangle, determine missing dimension
1040200	Determine perimeter of composite figures containing rectangles & squares, including real-world context
1040012	Given sides of rectangle, determine area
1040013	Given area & one dimension of rectangle, determine missing dimension
1040143	Determine area of missing dimension of rectangles, rael-world context

4.6: Geometry & Measurement: Attributes & Properties

4.6A(S)

Skill Code	Description
1062005	Identify angle names
1152303	Identify types of angles in figures
1152302	Identify parallel & perpendicular lines in figures
1062098	Identify characteristics of points, segments & rays from descriptions
1062096	Identify characteristics of points, segments & rays from diagrams
1152304	Identify types of lines in figures, real-world context
1133010	Classify polygons based on angles & parallel or perpendicular lines

4.6B(S)

Skill Code	Description

1062035	Identify lines of symmetry of 2D figures

4.6C(S)

Skill Code	Description
1062201	Classify triangle based on given angle measures

4.6D(R)

Skill Code	Description
1062094	Classify angles from figure
1133010	Classify polygons based on angles & parallel or perpendicular lines
1133001	Classify polygons based on number of sides or relationship to other shapes
1043002	Classify polygons using graphic organizers

4.7: Geometry & Measurement: Angles

4.7A(N)

Skill Code	Description
1062500	Identify 90, 180, 270, & 360 degree angles

4.7B(N)

Skill Code	Description
1062501	Estimate angle measures

4.7C(R)

Skill Code	Description
1062089	Measure angles using protractor

4.7D(S)

Skill Code	Description
1062091	Measure angles using protractor, real-world context
1062090	Identify angles with specified measures

4.7E(S)

Skill Code	Description
1062202	Determine angle measures in figure
1062017	Given two angle measures in triangle, determine angle measure
1624100	Given figure, determine missing part of adjacent angle
1624101	Given description & figure, determine angle, real-world context

4.8: Geometry & Measurement: Measurement

4.8A(S)

Skill Code	Description
1600031	Convert between customary units of length & determine appropriate relative units
1600032	Convert between customary units of weight
1600033	Convert between customary units of capacity
1600035	Convert between metric units of length & determine appropriate relative units

1600036	Convert between metric units of weight & determine appropriate relative units
1600037	Convert between metric units of capacity & determine appropriate relative units
4.8B(S)	
1440020	Convert between customary units of length
1440017	Convert between customary units to find sums or differences, including real-world context
1440018	Convert between metric units, real-world context
1440019	Convert customary & metric units, real-world context
4.8C(R)	
1413052	Determine time intervals
1411040	Convert between units of time, days, hours, minutes, & seconds
1411041	Convert between units of time, days weeks, months, & years
1600045	Perform operations with money
1600044	Add, subtract, & multiply integer masses, metric units, real-world context
1600043	Add, subtract, multiply, & divide liquid volumes, real-world context
1600041	Add & subtract mixed number distances, customary units, real-world context
1600042	Add & subtract decimal distances, metric units, real-world context
4.9: Data Analysis	
4.9A(R)	
730300	Given data, identify frequency table or determine missing element of table
730516	Given data, identify stem & leaf plot
730522	Given data, identify dot plot
4.9B(S)	
730206	Solve one-step problems from dot plots, real-world context, unreduced answers accepted
730200	Solve one-step problems from stem & leaf plots, real-world context
730411	Solve one-step problems from frequency tables, real-world context
730205	Solve one-step problems from various plots, graphs, & tables, real-world context
730303	Solve multi-step problems from stem & leaf plots, real-world context

730500	Solve multi-step problems from frequency tables, real-world context
730518	Solve multi-step problems from dot plots, real-world context, unreduced answers accepted

4.10: Personal Financial Literacy

4.10A(S)

780141	Identify fixed & variable expenses

4.10B(S)

780142	Determine profits

4.10C(N)

780143	Identify advantages & disadvantages of various savings options

4.10D(N)

780144	Determine budget allocations for spending, saving, & giving

4.10E(S)

780145	Identify purpose of financial institutions