



SuccessMaker®

**Alabama Mathematics Course of Study 2019
Grade 5**

**Alignments to SuccessMaker
Providing rigorous intervention
for K-8 learners with unparalleled precision**

Alabama Mathematics Standards Code	Alabama Mathematics Course of Study 2019 Grade 5	SuccessMaker Item Description	Item ID
OA	Operations and Algebraic Thinking		
	Write and interpret numerical expressions.		
OA.1	Write, explain, and evaluate simple numerical expressions involving the four operations to solve up to two-step problems. Include expressions involving parentheses, brackets, or braces, using commutative, associative, and distributive properties.	Ratios and Equations Targeted Lesson 19: Parentheses and Order of Operations	
		Apply the Associative Property of Multiplication as a strategy to multiply whole numbers.	SMMA_LO_02037
		Choose a method to solve a two-step problem.	SMMA_LO_01289
		Add integers in an associative expression $((a + b) + c$, three addends -10 to 10).	SMMA_LO_00113
		Multiplication and Division Targeted Lesson 31: Multiplying Multi-digit Numbers	
		Multiplication and Division Targeted Lesson 30: Using the Distributive Property	
		Use the commutative and associative properties of addition to find the missing number.	SMMA_LO_01090
		Apply the Commutative Property of Multiplication as a strategy to multiply and divide whole numbers.	SMMA_LO_02036
	Analyze patterns and relationships.		
OA.2	Generate two numerical patterns using two given rules and complete an input/output table for the data.	Generate two numerical patterns using two given rules and identify apparent relationships between corresponding terms.	SMMA_LO_02197
OA.2.a	Use data from an input/output table to identify apparent relationships between corresponding terms.	Generate a table of values given a two-step rule.	SMMA_LO_01756
		Identify the best estimate for a sum using data in a table (three- and four-digit addends).	SMMA_LO_01620
		Complete a table given a two-step rule (whole numbers).	SMMA_LO_01751

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		Add the decimal numbers provided on a data table.	SMMA_LO_01785
		Complete an input/output table given a two-step rule; then plot the ordered pairs on coordinate grid.	SMMA_LO_01758
		Complete an input/output table given a one-step rule; then plot the ordered pairs on a coordinate grid.	SMMA_LO_01757
		Solve a problem using data in a table (twice, half, three times, or four times an amount).	SMMA_LO_01593
		Generate a table of values given a one-step rule.	SMMA_LO_01755
		Complete a table given a two-step rule (single-digit whole numbers).	SMMA_LO_01750
		Read and interpret a table.	SMMA_LO_01695
		Make a table and a graph when given a rule in the form $y = ax$ or $y = x + a$.	SMMA_LO_02139
OA.2.b	Form ordered pairs from values in an input/output table.	Complete an input/output table and identify the algebraic equation that describes the one-step rule.	SMMA_LO_01806
		Complete an input/output table given a two-step rule; then plot the ordered pairs on coordinate grid.	SMMA_LO_01758
		Complete an input/output table given a one-step rule; then plot the ordered pairs on a coordinate grid.	SMMA_LO_01757
NBT	Operations with Numbers: Base Ten		
NBT.3	Using models and quantitative reasoning, explain that in a multi-digit number, including decimals, a digit in any place represents ten times what it represents in the place to its right and 1/10 of what it represents in the place to its left.	Identify the place and the value of a digit in a number; for that value, identify the number 10 times as much and the number 1/10 as much.	SMMA_LO_02045

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NBT.3.a	Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, using whole-number exponents to denote powers of 10.	Explain patterns in the number of zeroes of the product and in the placement of the decimal point when multiplying a number by powers of ten.	SMMA_LO_02046
		Find the missing exponent for a number written in scientific notation (the exponent is 1 to 6).	SMMA_LO_01122
		Multiply one- to five-digit whole numbers by powers of ten (10 to 100,000).	SMMA_LO_01078
NBT.3.b	Explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10, using whole-number exponents to denote powers of 10.	Fractions and Decimals Targeted Lesson 28: Powers of Ten	
		Explain patterns in the number of zeroes of the product and in the placement of the decimal point when multiplying a number by powers of ten.	SMMA_LO_02046
		Fractions and Decimals Targeted Lesson 35: Multiplying Decimals	
		Multiply decimals by 10, 100, or 1000.	SMMA_LO_00235
NBT.4	Read, write, and compare decimals to thousandths.	Compare decimal numbers (0.1 to 9.9).	SMMA_LO_00191
		Enter the decimal equivalent for a mixed number (hundredths, 100 in denominator).	SMMA_LO_00205
		Compare two decimal numbers (10.01 to 99.99).	SMMA_LO_00216
		Fractions and Decimals Targeted Lesson 30: Comparing Decimals	
		Add and compare decimals to hundredths to decide whether customers will save money	SMMA_LO_02506
		Compare decimals (to hundredths) to benchmark fractions.	SMMA_LO_00209
		Find a decimal number that is either greater than or less than two decimal numbers.	SMMA_LO_01118
		Compare decimal numbers (to thousandths).	SMMA_LO_00225

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		Enter a decimal number for a mixed number (tenths, 1.1 to 9.9).	SMMA_LO_00187
NBT.4.a	Read and write decimals to thousandths using base-ten numerals, number names, and expanded form.	Match the word name with the decimal number (0.10 to 9.99).	SMMA_LO_00204
		Match a decimal number to its word name (to thousandths).	SMMA_LO_00227
		Enter the decimal equivalent for a mixed number (hundredths, 100 in denominator).	SMMA_LO_00205
		Enter a decimal number for a mixed number (tenths, 1.1 to 9.9).	SMMA_LO_00187
NBT.4.b	Compare two decimals to thousandths based on the meaning of the digits in each place, using $>$, $=$, and $<$ to record the results of comparisons.	Compare decimal numbers (0.1 to 9.9).	SMMA_LO_00191
		Compare two decimal numbers (10.01 to 99.99).	SMMA_LO_00216
		Fractions and Decimals Targeted Lesson 30: Comparing Decimals	
		Add and compare decimals to hundredths to decide whether customers will save money	SMMA_LO_02506
		Compare decimals (to hundredths) to benchmark fractions.	SMMA_LO_00209
		Find a decimal number that is either greater than or less than two decimal numbers.	SMMA_LO_01118
		Compare decimal numbers (to thousandths).	SMMA_LO_00225
NBT.5	Use place value understanding to round decimals to thousandths.	Round a decimal to the nearest tenth, hundredth, or whole number.	SMMA_LO_00230
	Perform operations with multi-digit whole numbers and decimals to hundredths.	Add decimals numbers using mental math (sums 1.0 to 99.8, regrouping).	SMMA_LO_00217
		Divide decimals (0.3 x 0.3 to 0.9 x 0.09).	SMMA_LO_00245
		Multiply a four-digit number by a one-digit number (student choice, products 1000 x 2 to 9999 x 9).	SMMA_LO_00892
		Subtract decimal numbers (minuends and subtrahends 0.1 to 9.9, no regrouping).	SMMA_LO_00195

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		Add two decimal numbers (tenths, sums 1.0 to 2.0, regrouping).	SMMA_LO_00192
		Divide a decimal by a decimal (horizontal division; dividends to tenths).	SMMA_LO_00237
		Multiply a whole number or a decimal by 0.1, 0.01, or 0.001.	SMMA_LO_00252
		Multiply whole numbers (student choice, products 100 x 20 to 990 x 90, multiples of 10).	SMMA_LO_00902
		Multiply whole numbers (products 20 x 20 to 90 x 90, multiples of 10).	SMMA_LO_00889
		Subtract decimal numbers (minuends and subtrahends 0.01 to 9.99).	SMMA_LO_00207
		Fractions and Decimals Targeted Lesson 36: Multiplying and Dividing Decimals	
		Add two decimal numbers using mental math (sums 10.1 to 99.9, no regrouping).	SMMA_LO_00196
		Add the decimal numbers provided on a data table.	SMMA_LO_01785
		Subtract decimal numbers (minuends 2.0 to 9.9, subtrahends 0.1 to 0.9, regrouping).	SMMA_LO_00198
		Subtract decimal numbers (minuends and subtrahends 0.1 to 99.9, with or without regrouping).	SMMA_LO_00203
		Add decimal numbers (sums less than 10.0, regrouping).	SMMA_LO_00199
		Multiply two decimals or multiply a decimal by a whole number (tenths to hundredths).	SMMA_LO_00223
		Subtract decimal numbers using mental math (minuends and subtrahends 10.1 to 99.9, no regrouping).	SMMA_LO_00197
		Multiply whole numbers (student choice, products 101 x 2 to 999 x 9).	SMMA_LO_00886
		Align the decimal numbers in a vertical addition problem; then solve (hundredths, regrouping).	SMMA_LO_00211
		Multiply decimals (to thousandths x hundredths).	SMMA_LO_00234

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		Add two decimal numbers using mental math (sums 1.1 to 9.9, no regrouping).	SMMA_LO_00193
		Fractions and Decimals Targeted Lesson 35: Multiplying Decimals	
		Find the missing factor and quotient in two related number sentences (products 0.2×2 to 0.9×5).	SMMA_LO_00219
		Add decimals using addition facts (sums 0.02-0.99).	SMMA_LO_00206
		Divide a decimal by 0.1, 0.01, or 0.001.	SMMA_LO_00263
		Multiply whole numbers (student choice, products 101×20 to 999×90 , multiples of 10).	SMMA_LO_00904
		Fractions and Decimals Targeted Lesson 34: Adding and Subtracting Decimals	
		Multiply decimals displayed horizontally (0.2×0.6 to 0.9×0.12).	SMMA_LO_00232
		Multiply decimals (to ten-thousandths \times ten-thousandths).	SMMA_LO_00244
		Subtract metric length or weight measurements expressed as decimals (to tenths, difference 1.2 to 8.9, regrouping).	SMMA_LO_00159
		Add or subtract decimals using mental math (sums less than 1.00, with or without regrouping).	SMMA_LO_00210
		Add two decimal numbers (sums 1.0 to 98.9, regrouping).	SMMA_LO_00201
		Divide decimals (0×2 to 2×5).	SMMA_LO_00251
		Divide a decimal by 0.1, 0.01, or 0.001 (dividends 0.001 to 0.999).	SMMA_LO_00267
NBT.6	Fluently multiply multi-digit whole numbers using the standard algorithm.	Multiply a two-digit number by a two-digit number (student choice, products 16×11 to 19×99).	SMMA_LO_00901
		Multiply a four-digit number by a one-digit number (student choice, products 1000×2 to 9999×9).	SMMA_LO_00892
		Multiply whole numbers (student choice, products 100×20 to 990×90 , multiples of 10).	SMMA_LO_00902

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		Multiply whole numbers (products 20 x 20 to 90 x 90, multiples of 10).	SMMA_LO_00889
		Multiply whole numbers (student choice, products 11 x 11 to 15 x 99).	SMMA_LO_00899
		Multiply whole numbers (student choice, products 101 x 2 to 999 x 9).	SMMA_LO_00886
		Multiply whole numbers (student choice, products 21 x 11 to 99 x 99).	SMMA_LO_00903
		Multiply or divide two numbers with exponents (same base, exponents less than 18).	SMMA_LO_01104
		Multiply whole numbers (student choice, products 101 x 20 to 999 x 90, multiples of 10).	SMMA_LO_00904
NBT.7	Use strategies based on place value, properties of operations, and/or the relationship between multiplication and division to find whole-number quotients and remainders with up to four-digit dividends and two-digit divisors. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	Divide using the long division algorithm (three-digit number, two-digit divisor, remainder).	SMMA_LO_00304
		Interpret the quotient and remainder of a division problem in context (three-digit dividends).	SMMA_LO_01617
		Multiplication and Division Targeted Lesson 33: Relating Division to Multiplication	
		Divide using the long division algorithm (one-digit divisor, remainder).	SMMA_LO_00292
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, remainder).	SMMA_LO_00297
		Divide using the long division algorithm (one-digit divisor, remainder).	SMMA_LO_00295
		Multiplication and Division Targeted Lesson 10: Inverse Operations	
		Represent a quotient by using arrays, area models, or equations.	SMMA_LO_00300

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		Divide using the long division algorithm (three-digit dividend, one-digit divisor, no remainder).	SMMA_LO_00296
		Find the missing factor and quotient in two related number sentences (products 0.2 x 2 to 0.9 x 5).	SMMA_LO_00219
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, remainder).	SMMA_LO_00298
NBT.8	Add, subtract, multiply, and divide decimals to hundredths using strategies based on place value, properties of operations, and/or the relationships between addition/subtraction and multiplication/division; relate the strategy to a written method, and explain the reasoning used.	Add decimals numbers using mental math (sums 1.0 to 99.8, regrouping).	SMMA_LO_00217
		Divide decimals (0.3 x 0.3 to 0.9 x 0.09).	SMMA_LO_00245
		Subtract decimal numbers (minuends and subtrahends 0.1 to 9.9, no regrouping).	SMMA_LO_00195
		Add two decimal numbers (tenths, sums 1.0 to 2.0, regrouping).	SMMA_LO_00192
		Divide a decimal by a decimal (horizontal division; dividends to tenths).	SMMA_LO_00237
		Multiply a whole number or a decimal by 0.1, 0.01, or 0.001.	SMMA_LO_00252
		Fractions and Decimals Targeted Lesson 33: Decimal Sequences	
		Subtract decimals numbers (minuends and subtrahends 0.01 to 9.99).	SMMA_LO_00207
		Fractions and Decimals Targeted Lesson 36: Multiplying and Dividing Decimals	
		Add two decimal numbers using mental math (sums 10.1 to 99.9, no regrouping).	SMMA_LO_00196
		Add the decimal numbers provided on a data table.	SMMA_LO_01785
		Subtract decimal numbers (minuends 2.0 to 9.9, subtrahends 0.1 to 0.9, regrouping).	SMMA_LO_00198

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		Subtract decimal numbers (minuends and subtrahends 0.1 to 99.9, with or without regrouping).	SMMA_LO_00203
		Add decimal numbers (sums less than 10.0, regrouping).	SMMA_LO_00199
		Multiply two decimals or multiply a decimal by a whole number (tenths to hundredths).	SMMA_LO_00223
		Subtract decimal numbers using mental math (minuends and subtrahends 10.1 to 99.9, no regrouping).	SMMA_LO_00197
		Align the decimal numbers in a vertical addition problem; then solve (hundredths, regrouping).	SMMA_LO_00211
		Multiply decimals (to thousandths x hundredths).	SMMA_LO_00234
		Add two decimal numbers using mental math (sums 1.1 to 9.9, no regrouping).	SMMA_LO_00193
		Fractions and Decimals Targeted Lesson 35: Multiplying Decimals	
		Find the missing factor and quotient in two related number sentences (products 0.2×2 to 0.9×5).	SMMA_LO_00219
		Represent addition and subtraction of rational numbers (decimals) on a number line.	SMMA_LO_02154
		Add decimals using addition facts (sums 0.02-0.99).	SMMA_LO_00206
		Divide a decimal by 0.1, 0.01, or 0.001.	SMMA_LO_00263
		Fractions and Decimals Targeted Lesson 34: Adding and Subtracting Decimals	
		Multiply decimals displayed horizontally (0.2×0.6 to 0.9×0.12).	SMMA_LO_00232
		Multiply decimals (to ten-thousandths x ten-thousandths).	SMMA_LO_00244
		Subtract metric length or weight measurements expressed as decimals (to tenths, difference 1.2 to 8.9, regrouping).	SMMA_LO_00159
		Add or subtract decimals using mental math (sums less than 1.00, with or without regrouping).	SMMA_LO_00210

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		Add two decimal numbers (sums 1.0 to 98.9, regrouping).	SMMA_LO_00201
		Divide decimals (0 x 2 to 2 x 5).	SMMA_LO_00251
		Divide a decimal by 0.1, 0.01, or 0.001 (dividends 0.001 to 0.999).	SMMA_LO_00267
NBT.8.a	Use concrete models and drawings to solve problems with decimals to hundredths.	Solve a decimal subtraction problem in context (tenths, regrouping).	SMMA_LO_01599
		Solve a one-step equation with decimals in context (addition and subtraction).	SMMA_LO_01799
		Fractions and Decimals Targeted Lesson 37: Decimal Operations Word Problems	
NBT.8.b	Solve problems in a real-world context with decimals to hundredths.	Solve a decimal subtraction problem in context (tenths, regrouping).	SMMA_LO_01599
		Solve a one-step equation with decimals in context (addition and subtraction).	SMMA_LO_01799
		Fractions and Decimals Targeted Lesson 37: Decimal Operations Word Problems	
		Solve for a variable in the formula for simple interest (whole numbers and decimals).	SMMA_LO_01805
NF	Operations with Numbers: Fractions		
NF.9	Model and solve real-world problems involving addition and subtraction of fractions referring to the same whole, including cases of unlike denominators, using visual fraction models or equations to represent the problem. Use benchmark fractions and number sense of fractions to estimate mentally, and assess the reasonableness of answers.	Subtract fractions; simplify if necessary (unlike denominators).	SMMA_LO_00474
		Subtract fractions; simplify if necessary (unlike denominators).	SMMA_LO_00472
		Add fractions; simplify if necessary (unlike denominators).	SMMA_LO_00473
		Use a model and an equation to solve word problems involving the subtraction of fractions with like denominators.	SMMA_LO_02016

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		Add fractions; no simplifying (unlike denominators).	SMMA_LO_00467
		Subtract fractions; no simplifying (unlike denominators).	SMMA_LO_00466
		Subtract fractions; no simplifying (unlike denominators).	SMMA_LO_00468
		Add two fractional parts of whole numbers in context.	SMMA_LO_01640
		Using models, subtract fractions, no simplifying (like denominators, halves to eighths).	SMMA_LO_00442
		Using models, add fractions, no simplifying (like denominators, thirds to eighths).	SMMA_LO_00441
		Subtract two fractions from a whole within a context.	SMMA_LO_01634
		Add fractions; simplify if necessary (unlike denominators).	SMMA_LO_00471
		Add fractions; no simplifying (unlike denominators).	SMMA_LO_00465
		Fractions and Decimals Targeted Lesson 17: Adding and Subtracting Fractions with Unlike Denominators	
NF.10	Add and subtract fractions and mixed numbers with unlike denominators, using fraction equivalence to calculate a sum or difference of fractions or mixed numbers with like denominators.	Subtract fractions; simplify if necessary (unlike denominators).	SMMA_LO_00474
		Fractions and Decimals Targeted Lesson 20: Adding and Subtracting Mixed Numbers with Unlike Denominators	
		Subtract fractions; simplify if necessary (unlike denominators).	SMMA_LO_00472
		Add fractions; simplify if necessary (unlike denominators).	SMMA_LO_00473
		Subtract mixed numbers; simplify if necessary (unlike denominators).	SMMA_LO_00500
		Subtract mixed numbers within a context; simplify if necessary (unlike denominators).	SMMA_LO_00510
		Add fractions; no simplifying (unlike denominators).	SMMA_LO_00467

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		Subtract fractions; no simplifying (unlike denominators).	SMMA_LO_00466
		Add mixed numbers; simplify if necessary (unlike denominators).	SMMA_LO_00504
		Subtract fractions; no simplifying (unlike denominators).	SMMA_LO_00468
		Add mixed numbers within a context; simplify if necessary (unlike denominators).	SMMA_LO_00509
		Add mixed numbers; simplify if necessary (unlike denominators).	SMMA_LO_00499
		Subtract mixed numbers; simplify if necessary (unlike denominators).	SMMA_LO_00505
		Add fractions; simplify if necessary (unlike denominators).	SMMA_LO_00471
		Add fractions; no simplifying (unlike denominators).	SMMA_LO_00465
		Fractions and Decimals Targeted Lesson 17: Adding and Subtracting Fractions with Unlike Denominators	
	Apply and extend previous understandings of multiplication and division to multiply and divide fractions.		
NF.12	Apply and extend previous understandings of multiplication to find the product of a fraction times a whole number or a fraction times a fraction.	Model multiplication of a whole number by a fraction; complete an equation to show the product; interpret a real-world context that can be modeled by this equation.	SMMA_LO_02048
		Fractions and Decimals Targeted Lesson 21: Multiplying Fractions by Whole Numbers	
		Use fraction models to rewrite the product of a whole number and a fraction as the product of a whole number and a unit fraction. Then, find the product.	SMMA_LO_02006
		Multiply fractions; simplify.	SMMA_LO_00475
		Find the fractional part of a recipe (multiply a fraction and a mixed number).	SMMA_LO_00835
		Multiply three fractions; simplify if necessary.	SMMA_LO_00506
		Multiply a whole number by a proper fraction; no simplifying.	SMMA_LO_00470

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		Multiply a fraction and a whole number; simplify.	SMMA_LO_00477
		Fractions and Decimals Targeted Lesson 22: Multiplying Fractions	
		Use fraction models to relate a fraction to a whole number times a unit fraction. Then, write an equation for this relationship.	SMMA_LO_02005
		Find a fractional part of a fraction.	SMMA_LO_00498
		Multiply fractions; simplify first.	SMMA_LO_00476
		Using pictures, find a fractional amount of a whole number (product of halves to fourths and 2 to 16).	SMMA_LO_00428
		Model the multiplication of two fractions; complete an equation to show the product; interpret a real-world context that can be modeled by this equation.	SMMA_LO_02054
		Multiply a fraction and a whole number; simplify first.	SMMA_LO_00478
		Multiply fractions; no simplifying.	SMMA_LO_00469
NF.12.a	Use a visual fraction model (area model, set model, or linear model) to show $(a/b) \times q$ and create a story context for this equation to interpret the product as a parts of a partition of q into b equal parts.	Model multiplication of a whole number by a fraction; complete an equation to show the product; interpret a real-world context that can be modeled by this equation.	SMMA_LO_02048
		Fractions and Decimals Targeted Lesson 21: Multiplying Fractions by Whole Numbers	
		Use fraction models to rewrite the product of a whole number and a fraction as the product of a whole number and a unit fraction. Then, find the product.	SMMA_LO_02006
		Use fraction models to relate a fraction to a whole number times a unit fraction. Then, write an equation for this relationship.	SMMA_LO_02005
		Using pictures, find a fractional amount of a whole number (product of halves to fourths and 2 to 16).	SMMA_LO_00428

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NF.12.b	Use a visual fraction model (area model, set model, or linear model) to show $(a/b) \times (c/d)$ and create a story context for this equation to interpret the product.	Model a fraction a/b by filling in a out of b sections in a fraction model.	SMMA_LO_02034
		Fractions and Decimals Targeted Lesson 5: Fractions Using Models	
		Model the multiplication of two fractions; complete an equation to show the product; interpret a real-world context that can be modeled by this equation.	SMMA_LO_02054
NF.12.c	Multiply fractional side lengths to find areas of rectangles, and represent fraction products as rectangular areas.	Find the area of a rectangle with fractional side lengths in two ways: by multiplying its side lengths and by tiling it with smaller rectangles.	SMMA_LO_02049
NF.12.d	Find the area of a rectangle with fractional side lengths by tiling it with unit squares of the appropriate unit fraction side lengths to show that the area is the same as would be found by multiplying the side lengths.	Find the area of a rectangle with fractional side lengths in two ways: by multiplying its side lengths and by tiling it with smaller rectangles.	SMMA_LO_02049
		Multiply mixed numbers to determine the area of a rectangle or triangle; simplify if necessary.	SMMA_LO_00508
NF.14	Model and solve real-world problems involving multiplication of fractions and mixed numbers using visual fraction models, drawings, or equations to represent the problem.	Find the fractional part of a recipe (multiply a fraction and a mixed number).	SMMA_LO_00835
		Multiply mixed numbers to determine the area of a rectangle or triangle; simplify if necessary.	SMMA_LO_00508
		Model the multiplication of two fractions; complete an equation to show the product; interpret a real-world context that can be modeled by this equation.	SMMA_LO_02054

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NF.15	Apply and extend previous understandings of division to divide unit fractions by whole numbers and whole numbers by unit fractions.	Fractions and Decimals Targeted Lesson 23: Dividing Unit Fractions	
		Use models to solve real-world problems involving division of whole numbers by unit fractions.	SMMA_LO_02053
		Fractions and Decimals Targeted Lesson 24: Dividing by Unit Fractions	
		Divide a whole number by a fraction.	SMMA_LO_00492
		Model the division of a unit fraction by a nonzero whole number, and compute the quotient.	SMMA_LO_02052
		Use models to solve real-world problems involving division of unit fractions by nonzero whole numbers.	SMMA_LO_02156
		Divide a fraction by a whole number; simplify if necessary.	SMMA_LO_00489
		Divide a whole number by a fraction; simplify if necessary.	SMMA_LO_01787
NF.15.a	Solve real-world problems involving division of unit fractions by non-zero whole numbers and division of whole numbers by unit fractions and illustrate using visual fraction models, drawings, and equations to represent the problem.	Fractions and Decimals Targeted Lesson 23: Dividing Unit Fractions	
		Use models to solve real-world problems involving division of whole numbers by unit fractions.	SMMA_LO_02053
		Fractions and Decimals Targeted Lesson 24: Dividing by Unit Fractions	
		Divide a whole number by a fraction.	SMMA_LO_00492
		Model the division of a unit fraction by a nonzero whole number, and compute the quotient.	SMMA_LO_02052
		Use models to solve real-world problems involving division of unit fractions by nonzero whole numbers.	SMMA_LO_02156

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NF.15.b	Create a story context for a unit fraction divided by a whole number, and use a visual fraction model to show the quotient.	Fractions and Decimals Targeted Lesson 23: Dividing Unit Fractions	
		Model the division of a unit fraction by a nonzero whole number, and compute the quotient.	SMMA_LO_02052
		Use models to solve real-world problems involving division of unit fractions by nonzero whole numbers.	SMMA_LO_02156
NF.15.c	Create a story context for a whole number divided by a unit fraction, and use a visual fraction model to show the quotient.	Use models to solve real-world problems involving division of whole numbers by unit fractions.	SMMA_LO_02053
		Fractions and Decimals Targeted Lesson 24: Dividing by Unit Fractions	
DA	Data Analysis		
	Represent and interpret data.		
DA.16	Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$).	Make a line plot to show measurement data in fractions of a unit.	SMMA_LO_02196
		Make a line plot to show measurement data in whole number units.	SMMA_LO_02158
		Choose a title for a line plot and label the units.	SMMA_LO_01643
		Represent fractions of halves, fourths, and eighths as distances from zero on a number line.	SMMA_LO_02190
		Fractions and Decimals Targeted Lesson 4: Fractions Using Number Lines	
		Enter the missing fraction on a number line (halves to eighths).	SMMA_LO_00430
		Represent a unit fraction $\frac{1}{b}$ by partitioning a number line and then finding $\frac{1}{b}$ on it.	SMMA_LO_02148
DA.16.a	Add, subtract, multiply, and divide fractions to solve problems involving information presented in line plots.	Analyze a line plot to find the total number of items that fall at, above, or below a given value.	SMMA_LO_01156
		Identify the most frequent value (mode) using a line plot.	SMMA_LO_01164
		Read and interpret a line plot.	SMMA_LO_01764
M	Measurement		

Alabama Mathematics Standards Code	Alabama Mathematics Course of Study 2019 Grade 5	SuccessMaker Item Description	Item ID
	Convert like measurement units within a given measurement system.		
M.17	Convert among different-sized standard measurement units within a given measurement system and use these conversions in solving multi-step, real-world problems.	Calculate the volume of a rectangular prism; then convert the cubic feet or cubic meters into gallons or liters.	SMMA_LO_01819
		Convert linear measurements to the same unit in order to fill orders for solar panels.	SMMA_LO_02505
	Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition.	Identify a unit cube and what attribute it is used to measure.	SMMA_LO_02041
		Determine the volume of a box given the height, width, and length (60 to 480 customary or metric cubic units).	SMMA_LO_00174
		Find the volume of concrete needed to build a life-size model of Stonehenge	SMMA_LO_02508
		Find the volume of a right rectangular prism with fractional edge lengths.	SMMA_LO_02169
M.18	Identify volume as an attribute of solid figures, and measure volumes by counting unit cubes, using cubic cm, cubic in, cubic ft, and improvised (non-standard) units.	Find the capacity of a container (3 to 10 nonstandard units).	SMMA_LO_00754
		Identify a unit cube and what attribute it is used to measure.	SMMA_LO_02041
		Find the volume of a prism by packing the prism with unit cubes.	SMMA_LO_02042
		Add nonstandard units of capacity (sums 2 to 8).	SMMA_LO_00739
		Find the volume of a rectangular solid by counting cubes.	SMMA_LO_00833
		Subtract nonstandard units of capacity (differences 0 to 3).	SMMA_LO_00742
		Calculate the volume of a rectangular prism; then convert the cubic feet or cubic meters into gallons or liters.	SMMA_LO_01819
M.18.a	Pack a solid figure without gaps or overlaps using n unit cubes to demonstrate volume as n cubic units.	Identify a unit cube and what attribute it is used to measure.	SMMA_LO_02041

Alabama Mathematics Standards Code	Alabama Mathematics Course of Study 2019 Grade 5	SuccessMaker Item Description	Item ID
M.19	Relate volume to the operations of multiplication and addition, and solve real-world and mathematical problems involving volume.		
M.19.a	Use the associative property of multiplication to find the volume of a right rectangular prism and relate it to packing the prism with unit cubes. Show that the volume can be determined by multiplying the three edge lengths or by multiplying the height by the area of the base.	Find the volume of a right rectangular prism with fractional edge lengths.	SMMA_LO_02169
		Determine the volume of a box given the height, width, and length (60 to 480 customary or metric cubic units).	SMMA_LO_00174
M.19.b	Apply the formulas $V = l \times w \times h$ and $V = B \times h$ for rectangular prisms to find volumes of right rectangular prisms with whole-number edge lengths in the context of solving real-world and mathematical problems.	Solve for a variable in the formula for volume of a rectangular prism (whole numbers and mixed numbers).	SMMA_LO_01817
		Compute the volume of right rectangular prisms using formulas.	SMMA_LO_02043
		Find the volume of a right rectangular prism with fractional edge lengths.	SMMA_LO_02169
M.19.c	Find volumes of solid figures composed of two non-overlapping right rectangular prisms by adding the volumes of the two parts, applying this technique to solve real-world problems.	Find the volume of concrete needed to build a life-size model of Stonehenge	SMMA_LO_02508
G	Geometry		
	Graph points on the coordinate plane to solve real-world and mathematical problems.		
G.20	Graph points in the first quadrant of the coordinate plane, and interpret coordinate values of points to represent real-world and mathematical problems.	Given a coordinate grid to represent outcomes of tossing a pair of number cubes, identify the point that represents a given pair of outcomes.	SMMA_LO_01218
		Graph a set of ordered pairs from a table on a coordinate plane (Quadrant I).	SMMA_LO_01809

Alabama Mathematics Standards Code	Alabama Mathematics Course of Study 2019 Grade 5	SuccessMaker Item Description	Item ID
		Graph a point on a coordinate grid (Quadrant I).	SMMA_LO_01735
		Given a coordinate grid to represent outcomes of tossing a pair of number cubes, identify all points that represent the sum given for a pair of outcomes.	SMMA_LO_01219
		Graph a set of ordered pairs from a table on a coordinate plane (Quadrant I).	SMMA_LO_01808
	Classify two-dimensional figures into categories based on their properties.		
G.21	Classify triangles according to side length (isosceles, equilateral, scalene) and angle measure (acute, obtuse, right, equiangular).	Identify all triangles of a particular class (acute, right, or obtuse).	SMMA_LO_01774
		Identify acute, obtuse, and right triangles.	SMMA_LO_00655
		Identify equilateral, isosceles, and scalene triangles.	SMMA_LO_00658
G.22	Classify quadrilaterals in a hierarchy based on properties.	Identify the quadrilaterals that are trapezoids or rhombuses.	SMMA_LO_00659
		Identify the quadrilaterals in a set of figures.	SMMA_LO_00615
		Classify quadrilaterals based on their attributes.	SMMA_LO_02199
		Identify parallelograms by their attributes.	SMMA_LO_02215
		In a set of quadrilaterals, identify all the parallelograms.	SMMA_LO_00621
		Identify rectangles by their attributes.	SMMA_LO_02216