



SuccessMaker®

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for K-8 learners with unparalleled precision

Ohio Mathematics Standard Codes	Ohio Mathematics Learning Standards, Grade 4	SuccessMaker Item Description	Item ID
OH.Math.4.OA	Operations and Algebraic Thinking		
OH.Math.4.OA.A	Use the four operations with whole numbers to solve problems.		
OH.Math.4.OA.1	Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations.	Interpret a multiplication equation by writing a comparison statement.	SMMA_LO_02025
		Use a model to represents a word problem involving multiplicative comparison. Then, use an equation to represent the solution to the word problem.	SMMA_LO_02009
		Translate a verbal statement of a multiplicative comparison into a multiplication equation.	SMMA_LO_02008
OH.Math.4.OA.2	Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.	Identify an expression that can be used to solve a problem (inverse operations).	SMMA_LO_01275
		Use a model to represents a word problem involving multiplicative comparison. Then, use an equation to represent the solution to the word problem.	SMMA_LO_02009
		Use a picture to solve an addition problem with three addends.	SMMA_LO_01286
		Solve a division problem about money with extra information (round quotient to the nearest whole number).	SMMA_LO_01585
		Identify the expression that represents a division problem in context; then solve the problem (dividends 12 to 81).	SMMA_LO_01605
		Make a picture to solve a multistep addition and multiplication problem in context.	SMMA_LO_01592
OH.Math.4.OA.3	Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.	Identify the most reasonable answer to a division problem involving money.	SMMA_LO_01279
		Identify the expression that gives the best estimate for an addition or subtraction problem in context (two-digit numbers).	SMMA_LO_01566
		Identify the most reasonable answer to a multiplication problem involving money.	SMMA_LO_01278
		Make a picture to solve a multistep addition and multiplication problem in context.	SMMA_LO_01592
		Identify the best estimate for a sum using data in a table (three- and four-digit addends).	SMMA_LO_01620

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OH.Math.4.OA.B	Gain familiarity with factors and multiples.		
OH.Math.4.OA.4	Find all factor pairs for a whole number in the range 1-100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1-100 is prime or composite.	Find the factors of a number and determine if the number is prime or composite (3 to 30).	SMMA_LO_01073
		Identify the number that is divisible by a given factor (numbers 2 to 81, factors 2 to 9).	SMMA_LO_01066
		Determine three factors of a given number.	SMMA_LO_01107
		Identify sets of prime and composite numbers.	SMMA_LO_01119
		Identify numbers that are multiples of a given number.	SMMA_LO_01069
		Identify the complete set of factors for a number (2 to 25).	SMMA_LO_01071
OH.Math.4.NBT	Number and Operations in Base Ten		
OH.Math.4.NBT.A	Generalize place value understanding for multi-digit whole numbers less than or equal to 1,000,000.		
OH.Math.4.NBT.2	Read and write multi-digit whole numbers using standard form, word form, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons.	Compare two whole numbers (three to seven-digit numbers).	SMMA_LO_01711
		Identify the number when given the word name (10,000 to 999,999).	SMMA_LO_01076
		Enter the number for a word name (1000 to 9999).	SMMA_LO_01065
		Identify a word name for a four-, five- or six-digit numbers.	SMMA_LO_01043
OH.Math.4.NBT.3	Use place value understanding to round multi-digit whole numbers to any place through 1,000,000.	Round four- to five-digit numbers in context (to the nearest thousand).	SMMA_LO_01106
		Round a three- to five-digit number to the nearest hundred.	SMMA_LO_01081
OH.Math.4.NBT.B	Use place value understanding and properties of operations to perform multi-digit arithmetic with whole numbers less than or equal to 1,000,000.		
OH.Math.4.NBT.5	Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	Multiply a two-digit number by a one-digit number (student choice, products 10×6 to 15×9).	SMMA_LO_00874
		Multiply a 1-digit number by a 2-digit number (products 12×6 to 19×9).	SMMA_LO_00896

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		Multiply a two-digit number by a one-digit number (student choice, products 21 x 2 to 99 x 9).	SMMA_LO_00880
		Use partial sums and arrays to solve a two-digit by a one-digit multiplication problem.	SMMA_LO_01716
		Multiply a one-digit number by a two-digit number (products 2 x 12 to 9 x 12).	SMMA_LO_00875
		Multiply a 1-digit number by a 2-digit number (products 13 x 1 to 19 x 5).	SMMA_LO_00894
		Multiply a two-digit number by a one-digit number (student choice, products 10 x 2 to 15 x 5).	SMMA_LO_00870
		Solve a multiplication problem in context (one-, two-, and three-digit factors).	SMMA_LO_01604
		Multiply a two-digit number by a one-digit number (student choice, products 16 x 2 to 19 x 5).	SMMA_LO_00872
		Multiply a two-digit number by a one-digit number (products 10 x 2 to 12 x 12).	SMMA_LO_00871
		Multiply a two-digit number by a one-digit number (student choice, vertical, products 10 x 1 to 12 x 4).	SMMA_LO_00869
		Identify equivalent arrays with different factors.	SMMA_LO_01715
		Multiply a two-digit number by a one-digit number (student choice, products 16 x 6 to 19 x 9).	SMMA_LO_00876
OH.Math.4.NBT.6	Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.	Divide using the long division algorithm (one-digit divisor, remainder).	SMMA_LO_00292
		Divide using the long division algorithm (one-digit divisor, no remainder).	SMMA_LO_00290
		Divide using the long division algorithm (one-digit divisor, no remainder).	SMMA_LO_00294
		Identify equivalent arrays with different factors.	SMMA_LO_01715
OH.Math.4.NF	Number and Operations—Fractions		
OH.Math.4.NF.A	Extend understanding of fraction equivalence and ordering limited to fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12, and 100.		
OH.Math.4.NF.1	Explain why a fraction a/b is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions.	Use a model and an equation to solve word problems involving the addition of fractions with like denominators.	SMMA_LO_02004

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		Identify the fraction that is greater than a given fraction (unlike denominators, halves to eighths).	SMMA_LO_00437
		Using models, find equivalent fractions (halves to twelfths).	SMMA_LO_00433
		Using models, compare fractions (unlike denominators, halves to sixteenths).	SMMA_LO_00436
		Using models, compare fractions (unlike denominators, numerators equal to one, halves to sixteenths).	SMMA_LO_00435
		Using a model, rewrite a whole number as a fraction (halves to eighths).	SMMA_LO_00443
		Identify two equivalent fractions for $1/2$.	SMMA_LO_01708
		Using models, subtract fractions, no simplifying (like denominators, halves to eighths).	SMMA_LO_00442
		Using models, compare fractions (unlike denominators, halves to eighths).	SMMA_LO_00438
		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
		Use a model and an equation to solve word problems involving the subtraction of fractions with like denominators.	SMMA_LO_02016
		Using models, add fractions, no simplifying (like denominators, thirds to eighths).	SMMA_LO_00441
		Using a model, rewrite a mixed number as a fraction (halves to eighths).	SMMA_LO_00446
		Determine addition expressions that are equivalent to a given fraction.	SMMA_LO_02146
		Use a model to compare two fractions (halves to eighths, unlike denominators).	SMMA_LO_00429
OH.Math.4.NF.2	Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $\frac{1}{2}$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual fraction model.	Compare fractions to 1 on the number line (halves to eighths).	SMMA_LO_00432
OH.Math.4.NF.B	Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers limited to fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12, and 100. (Fractions need not be simplified).		
OH.Math.4.NF.3	Understand a fraction a/b with $a > 1$ as a sum of fractions $1/b$.	Compare fractions to 1 on the number line (halves to eighths).	SMMA_LO_00432
OH.Math.4.NF.3d	Solve word problems involving addition and subtraction of fractions referring to the same whole and having like denominators, e.g., by using visual fraction models and equations to represent the problem.	Use a model and an equation to solve word problems involving the addition of fractions with like denominators.	SMMA_LO_02004

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		Identify an expression that can be used to solve a problem (inverse operations).	SMMA_LO_01275
		Identify the fraction that is greater than a given fraction (unlike denominators, halves to eighths).	SMMA_LO_00437
		Use a model to represents a word problem involving multiplicative comparison. Then, use an equation to represent the solution to the word problem.	SMMA_LO_02009
		Use a picture to solve an addition problem with three addends.	SMMA_LO_01286
		Solve a division problem about money with extra information (round quotient to the nearest whole number).	SMMA_LO_01585
		Identify the expression that represents a division problem in context; then solve the problem (dividends 12 to 81).	SMMA_LO_01605
		Using models, find equivalent fractions (halves to twelfths).	SMMA_LO_00433
		Using models, compare fractions (unlike denominators, halves to sixteenths).	SMMA_LO_00436
		Using models, compare fractions (unlike denominators, numerators equal to one, halves to sixteenths).	SMMA_LO_00435
		Add fractions with like denominators (no simplifying).	SMMA_LO_01709
		Using a model, rewrite a whole number as a fraction (halves to eighths).	SMMA_LO_00443
		Using models, subtract fractions, no simplifying (like denominators, halves to eighths).	SMMA_LO_00442
		Using models, compare fractions (unlike denominators, halves to eighths).	SMMA_LO_00438
		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
		Use a model and an equation to solve word problems involving the subtraction of fractions with like denominators.	SMMA_LO_02016
		Using models, add fractions, no simplifying (like denominators, thirds to eighths).	SMMA_LO_00441
		Using a model, rewrite a mixed number as a fraction (halves to eighths).	SMMA_LO_00446
		Use a model to compare two fractions (halves to eighths, unlike denominators).	SMMA_LO_00429
OH.Math.4.NF.4	Apply and extend previous understandings of multiplication to multiply a fraction by a whole number.		
OH.Math.4.NF.4b	Understand a multiple of a/b as a multiple of $1/b$, and use this understanding to multiply a fraction by a whole number.	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

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OH.Math.4.NF.4c	Solve word problems involving multiplication of a fraction by a whole number, e.g., by using visual fraction models and equations to represent the problem.	Use a model and an equation to solve word problems involving the addition of fractions with like denominators.	SMMA_LO_02004
		Identify an expression that can be used to solve a problem (inverse operations).	SMMA_LO_01275
		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
		Identify the fraction that is greater than a given fraction (unlike denominators, halves to eighths).	SMMA_LO_00437
		Use a model to represent a word problem involving multiplicative comparison. Then, use an equation to represent the solution to the word problem.	SMMA_LO_02009
		Use a picture to solve an addition problem with three addends.	SMMA_LO_01286
		Solve a division problem about money with extra information (round quotient to the nearest whole number).	SMMA_LO_01585
		Identify the expression that represents a division problem in context; then solve the problem (dividends 12 to 81).	SMMA_LO_01605
		Using models, find equivalent fractions (halves to twelfths).	SMMA_LO_00433
		Using models, compare fractions (unlike denominators, halves to sixteenths).	SMMA_LO_00436
		Using models, compare fractions (unlike denominators, numerators equal to one, halves to sixteenths).	SMMA_LO_00435
		Make a picture to solve a multistep addition and multiplication problem in context.	SMMA_LO_01592
		Using a model, rewrite a whole number as a fraction (halves to eighths).	SMMA_LO_00443
		Using models, subtract fractions, no simplifying (like denominators, halves to eighths).	SMMA_LO_00442
		Using models, compare fractions (unlike denominators, halves to eighths).	SMMA_LO_00438
		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
		Use a model and an equation to solve word problems involving the subtraction of fractions with like denominators.	SMMA_LO_02016
		Using models, add fractions, no simplifying (like denominators, thirds to eighths).	SMMA_LO_00441
		Using a model, rewrite a mixed number as a fraction (halves to eighths).	SMMA_LO_00446
		Use a model to compare two fractions (halves to eighths, unlike denominators).	SMMA_LO_00429

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OH.Math.4.NF.C	Understand decimal notation for fractions, and compare decimal fractions limited to fractions with denominators 2, 3, 4, 5, 6, 8, 10, 12, and 100.		
OH.Math.4.NF.5	Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100.	Express a fraction with denominator 10 as an equivalent fraction with denominator 100. Then, add that fraction to another fraction with denominator 100.	SMMA_LO_02007
OH.Math.4.NF.6	Use decimal notation for fractions with denominators 10 or 100.	Find the missing decimal number on a number line (1.0 to 9.89).	SMMA_LO_00215
		Find the missing decimal number on a number line (tenths, 0.1 to 0.9).	SMMA_LO_00188
		Enter a decimal number on a number line (1.11 to 9.89).	SMMA_LO_00213
OH.Math.4.NF.7	Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model.	Compare two decimal numbers (10.01 to 99.99).	SMMA_LO_00216
		Compare decimals (to hundredths) to benchmark fractions.	SMMA_LO_00209
		Compare decimal numbers (0.1 to 9.9).	SMMA_LO_00191
OH.Math.4.MD	Measurement and Data		
OH.Math.4.MD.A	Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.		
OH.Math.4.MD.2	Solve real-world problems involving money, time, and metric measurement.		
OH.Math.4.MD.2a	Using models, add and subtract money and express the answer in decimal notation.	Identify the most reasonable answer to a division problem involving money.	SMMA_LO_01279
		Solve a division problem about money with extra information (round quotient to the nearest whole number).	SMMA_LO_01585
		Identify the most reasonable answer to a multiplication problem involving money.	SMMA_LO_01278
		Estimate the total cost of four items by rounding to the nearest dollar (sums to \$15.00).	SMMA_LO_01591
		Estimate the difference by rounding to the nearest dollar (minuends \$5.00 to \$20.00, subtrahends \$3.00 to \$15.00).	SMMA_LO_01669
OH.Math.4.MD.2c	Add, subtract, and multiply whole numbers to solve metric measurement problems involving distances, liquid volumes, and masses of objects.	Identify the most reasonable answer to a division problem involving money.	SMMA_LO_01279
		Estimate the distance by rounding ($d = rt$).	SMMA_LO_01606
		Solve a division problem about money with extra information (round quotient to the nearest whole number).	SMMA_LO_01585
		Identify the most reasonable answer to a multiplication problem involving money.	SMMA_LO_01278

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		Estimate the total cost of four items by rounding to the nearest dollar (sums to \$15.00).	SMMA_LO_01591
		Estimate the difference by rounding to the nearest dollar (minuends \$5.00 to \$20.00, subtrahends \$3.00 to \$15.00).	SMMA_LO_01669
OH.Math.4.MD.3	Develop efficient strategies to determine the area and perimeter of rectangles in real-world situations and mathematical problems.	Find the perimeter of a polygon (decimal numbers, metric units).	SMMA_LO_00805
OH.Math.4.MD.B	Represent and interpret data.		
OH.Math.4.MD.4	Display and interpret data in graphs (picture graphs, bar graphs, and line plots) to solve problems using numbers and operations for this grade.	Identify all the towns with temperatures below 32 degrees Fahrenheit on a weather map.	SMMA_LO_01311
		Use a model and an equation to solve word problems involving the addition of fractions with like denominators.	SMMA_LO_02004
		Identify the most frequent value (mode) using a line plot.	SMMA_LO_01164
		Predict the effect of changing temperatures on the weather.	SMMA_LO_01312
		Graph and interpret rainfall data in a chart.	SMMA_LO_01328
		Determine addition expressions that are equivalent to a given fraction.	SMMA_LO_02146
OH.Math.4.G	Geometry		
OH.Math.4.G.A	Draw and identify lines and angles, and classify shapes by properties of their lines and angles.		
OH.Math.4.G.1	Draw points, lines, line segments, rays, angles (right, acute, and obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.	Identify right, acute, and obtuse angles in polygons.	SMMA_LO_00630
		Draw a line segment using a ruler (to 1/4 inch and 0.5 cm).	SMMA_LO_00800
		Identify line segments in three- and four-sided figures.	SMMA_LO_00579
		Identify parallel and perpendicular streets on a map.	SMMA_LO_00619
OH.Math.4.G.2	Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the presence or absence of angles of a specified size.	Identify right, acute, and obtuse angles in polygons.	SMMA_LO_00630