



SuccessMaker®

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Tennessee Mathematics Standards Code	Tennessee Mathematics Standards 2016, Grade 6	SuccessMaker Item Description	Item ID
6.RP	Ratios and Proportional Relationships		
6.RP.A	Understand ratio concepts and use ratio reasoning to solve problems.		
6.RP.A.3	Use ratio and rate reasoning to solve real-world and mathematical problems (e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations).	Given a rate and a model, find a distance.	SMMA_LO_01575
6.RP.A.3.a	Make tables of equivalent ratios relating quantities with whole number measurements, find missing values in the tables, and plot the pairs of values on the coordinate plane. Use tables to compare ratios.	Complete a comparison statement based on the ratios in two tables.	SMMA_LO_02116
6.RP.A.3.b	Solve unit rate problems including those involving unit pricing and constant speed.	Find the number of hours worked given the hourly rate and total earned.	SMMA_LO_01625
6.RP.A.3.c	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percent.	Determine the percent (100 total items).	SMMA_LO_01713
6.NS	The Number System		
6.NS.A	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.		
6.NS.A.1	Interpret and compute quotients of fractions, and solve contextual problems involving division of fractions by fractions (e.g., using visual fraction models and equations to represent the problem is suggested).	Divide a mixed number by a fraction; simplify if necessary.	SMMA_LO_01789
		Divide a fraction by a fraction; simplify if necessary.	SMMA_LO_01788
6.NS.B	Compute fluently with multi-digit numbers and find common factors and multiples.		
6.NS.B.2	Fluently divide multi-digit numbers using a standard algorithm.	Move the decimal point in the divisor and dividend in a long division problem.	SMMA_LO_00247
		Divide using the long division algorithm (one-digit divisor, remainder).	SMMA_LO_00295
		Practice division using basic facts; dividend, divisor less than or equal to 20.	SMMA_SG_00620
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, remainder).	SMMA_LO_00298
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, remainder).	SMMA_LO_00297
		Divide using the long division algorithm (four-digit dividend, one-digit divisor, remainder).	SMMA_LO_00300
		Practice division using basic facts; dividend, divisor less than or equal to 20.	SMMA_SG_00670
		Divide using the long division algorithm (three-digit dividend, one-digit divisor, no remainder).	SMMA_LO_00296
		Move the decimal point in the divisor and dividend in a long division problem; then find the quotient.	SMMA_LO_00249
		Divide using the long division algorithm (three-digit number, two-digit divisor, remainder).	SMMA_LO_00304
		Practice division using basic facts; dividend, divisor less than or equal to 20.	SMMA_SG_00600
6.NS.B.3	Fluently add, subtract, multiply, and divide multi-digit decimals using a standard algorithm for each operation.	Divide decimals (0.3 x 0.3 to 0.9 x 0.09).	SMMA_LO_00245

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		Move the decimal point in the divisor and dividend in a long division problem.	SMMA_LO_00247
		Align the decimal numbers for a vertical subtraction problem; then solve (to thousandths).	SMMA_LO_00228
		Subtract decimals with regrouping (to ten-thousandths).	SMMA_LO_00243
		Multiply decimals (to ten-thousandths x ten-thousandths).	SMMA_LO_00244
		Multiply decimals (to thousandths x hundredths).	SMMA_LO_00234
		Divide decimals (0 x 2 to 2 x 5).	SMMA_LO_00251
		Subtract the decimal numbers provided on a data table.	SMMA_LO_01786
		Move the decimal point in the divisor and dividend in a long division problem; then find the quotient.	SMMA_LO_00249
		Add the decimal numbers provided on a data table.	SMMA_LO_01785
		Align the decimal numbers in a vertical subtraction problem; then solve (decimals to thousandths).	SMMA_LO_00233
		Multiply a whole number or a decimal by 0.1, 0.01, or 0.001.	SMMA_LO_00252
		Solve for a or b in $a \div b = c$ (up to 4-digit decimals).	SMMA_LO_00378
		Align the decimal numbers for a vertical addition problem; then solve (to thousandths).	SMMA_LO_00226
6.NS.C	Apply and extend previous understandings of numbers to the system of rational numbers.		
6.NS.C.5	Understand that positive and negative numbers are used together to describe quantities having opposite directions or values (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge); use positive and negative numbers to represent quantities in real-world contexts, explaining the meaning of 0 in each situation.	Use positive and negative numbers together to represent quantities having opposite directions or values.	SMMA_LO_02066
6.NS.C.6	Understand a rational number as a point on the number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on the line and in the plane with negative number coordinates.		
6.NS.C.6.b	Understand signs of numbers in ordered pairs as indicating locations in quadrants of the coordinate plane; recognize that when two ordered pairs differ only by signs, the locations of the points are related by reflections across one or both axes.	Given two points, describe how the points are related: reflected across the x-axis, reflected across the y-axis, or reflected across both axes.	SMMA_LO_02108
6.NS.C.6.c	Find and position integers and other rational numbers on a horizontal or vertical number line diagram; find and position pairs of integers and other rational numbers on a coordinate plane.	Locate the missing integer on a number line (-3 to -12).	SMMA_LO_00101
		Graph points on a coordinate plane based on a real-world context.	SMMA_LO_02112
6.NS.C.7	Understand ordering and absolute value of rational numbers.		

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6.NS.C.7.b	Write, interpret, and explain statements of order for rational numbers in real-world contexts.	Compare rational numbers in real-world contexts.	SMMA_LO_02109
		Determine the least or greatest integer (-10 to 10).	SMMA_LO_01102
		Complete statements of order for rational numbers in real-world contexts.	SMMA_LO_02110
6.NS.C.8	Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	Graph points on a coordinate plane based on a real-world context.	SMMA_LO_02112
6.EE	Expressions and Equations		
6.EE.A	Apply and extend previous understandings of arithmetic to algebraic expressions.		
6.EE.A.1	Write and evaluate numerical expressions involving whole-number exponents.	Give the value of a number (1 to 10) raised to a power (1 to 5).	SMMA_LO_01098
6.EE.A.2	Write, read, and evaluate expressions in which variables stand for numbers.		
6.EE.A.2.a	Write expressions that record operations with numbers and with variables.	Write expressions that record operations with numbers and variables.	SMMA_LO_02056
6.EE.A.2.b	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient); view one or more parts of an expression as a single entity.	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient).	SMMA_LO_02057
6.EE.A.2.c	Evaluate expressions at specific values of their variables. Include expressions that arise from formulas used in real-world problems. Perform arithmetic operations, including those involving whole number exponents, in the conventional order when there are no parentheses to specify a particular order (Order of Operations).	Match expressions with repeated factors to numbers in exponential form to create equations.	SMMA_LO_01100
		Evaluate an expression within a context (multiplication).	SMMA_LO_01740
		Evaluate an expression with variables using substitution and a value chart (addition, sums to 18).	SMMA_LO_01685
		Evaluate an expression using the order of operations.	SMMA_LO_01091
		Given the value for the variable, evaluate an addition expression (sums 4 to 12).	SMMA_LO_01683
		Evaluate the expression $mx + c$ or $mx - c$.	SMMA_LO_01739
6.EE.A.3	Apply the properties of operations (including, but not limited to, commutative, associative, and distributive properties) to generate equivalent expressions. The distributive property is prominent here.	Apply the properties of operations to generate equivalent expressions.	SMMA_LO_02059
6.EE.A.4	Identify when expressions are equivalent (i.e., when the expressions name the same number regardless of which value is substituted into them).	Choose all expressions that are equivalent to a given expression.	SMMA_LO_02060
6.EE.B	Reason about and solve one-variable equations and inequalities.		
6.EE.B.5	Understand solving an equation or inequality is carried out by determining if any of the values from a given set make the equation or inequality true. Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	SMMA_LO_02061

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6.EE.B.7	Solve real-world and mathematical problems by writing and solving one-step equations of the form $x + p = q$ and $px = q$ for cases in which p , q , and x are all nonnegative rational numbers.	Solve for a in $a/b = c$.	SMMA_LO_01798
		Solve for a or b in $a \div b = c$ (combinations $2 \div 10$ to $5 \div 12$).	SMMA_LO_00359
		Solve for a or b in $a \div b = c$ (combinations $6 \div 10$ to $9 \div 12$).	SMMA_LO_00361
		Solve a one-step equation in context (addition, two-digit whole numbers).	SMMA_LO_01743
		Solve for a or b in $a \times b = x$ (products 2×10 to 12×12).	SMMA_LO_00363
		Solve for a or b in $a \div b = c$ (combinations $6 \div 20$ to $9 \div 90$, multiples of 10).	SMMA_LO_00365
		Solve for a or b in $a \times b = c$ (products from 0.02×0.13 to 0.09×0.19).	SMMA_LO_00376
		Solve a one-step equation in context (subtraction, two-digit whole numbers).	SMMA_LO_01744
		Solve for a or b in $a \times b = x$ (products 2×20 to 12×90 , multiples of 10).	SMMA_LO_00366
		Solve for a or b in $a + b = c$ (decimals to tenths, no regrouping).	SMMA_LO_00367
		Solve one-step equations (addition and subtraction, fractions).	SMMA_LO_01796
		Solve for x in $ax = c$ in steps (products 4×4 to 9×10).	SMMA_LO_00380
		Complete the steps to solve for a in $a \div b = c$ (combinations 4×4 to 9×10).	SMMA_LO_00381
		Solve a one-step equation (subtraction).	SMMA_LO_01688
		Solve for a or b in $a \div b = c$ (combinations $0.6 \div 0.6$ to $0.9 \div 0.9$).	SMMA_LO_00370
		Solve for a or b in $a \times b = c$ (products from 0.2×0.6 to 0.9×0.9).	SMMA_LO_00369
		Solve for a or b in $a - b = c$ (decimals to tenths, regrouping).	SMMA_LO_00368
		Solve a one-step equation in context (division, two-digit whole numbers).	SMMA_LO_01747
		Solve a one-step equation (division).	SMMA_LO_01692
		Solve for a in $a + b = c$ or $a - b = c$ in steps (whole number sums and differences 2 to 20).	SMMA_LO_00379
		Solve a one-step equation in context (division, two-digit whole numbers).	SMMA_LO_01745
		Solve for a or b in $a \times b = c$ (products 6×2 to 9×12).	SMMA_LO_00357
		Solve a one-step equation (multiplication).	SMMA_LO_01690
6.EE.B.8	Interpret and write an inequality of the form $x > c$ or $x < c$ which represents a condition or constraint in a real-world or mathematical problem. Recognize that inequalities have infinitely many solutions; represent solutions of inequalities on number line diagrams.	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint in a real-world problem. Then represent the solution on a number line.	SMMA_LO_02065
6.G	Geometry		
6.G.A	Solve real-world and mathematical problems involving area, surface area, and volume.		

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6.G.A.2	Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths, and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Know and apply the formulas $V = lwh$ and $V = Bh$ where B is the area of the base to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	Find the volume of a rectangular solid by counting cubes.	SMMA_LO_00829
		Find the volume of a rectangular solid by counting cubes.	SMMA_LO_00833
6.G.A.4	Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	Identify the net that forms a three-dimensional solid.	SMMA_LO_01772
6.SP	Statistics and Probability		
6.SP.B	Summarize and describe distributions.		
6.SP.B.4	Display a single set of numerical data using dot plots (line plots), box plots, pie charts and stem plots.	Identify data sets that match the data represented in a given box-and-whiskers plot.	SMMA_LO_01202
		Identify box-and whiskers plot that matches a given set of data.	SMMA_LO_01201
		Measure the amount of rainfall for the week; then complete the chart and determine the total amount of rainfall for the month.	SMMA_LO_01327
		Find the five values (upper and lower extremes, median, and upper and lower quartiles) from a set of data that are needed to create a box-and-whiskers plot.	SMMA_LO_01199
		Read and interpret a line plot.	SMMA_LO_01764
6.SP.B.5	Summarize numerical data sets in relation to their context.		
6.SP.B.5.c	Give quantitative measures of center (median and/or mean) and variability (range) as well as describing any overall pattern with reference to the context in which the data were gathered.	Find the five values (upper and lower extremes, median, and upper and lower quartiles) from a set of data that are needed to create a box-and-whiskers plot.	SMMA_LO_01199
		Determine the range of a set of data.	SMMA_LO_01766
		Find the range of a set of data.	SMMA_LO_01166
		Determine the average (mean), median, mode, and range.	SMMA_LO_01210
		Identify the median of a data set with an odd number of items.	SMMA_LO_01168
		Determine the range of a set of data represented in a line graph.	SMMA_LO_01176

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