



Pearson



# SuccessMaker<sup>®</sup>

**Missouri Mathematics Learning Standards:  
Grade Level Expectations 2016, Grade 6**

## **Alignments to SuccessMaker**

Providing rigorous intervention  
for K-8 learners with unparalleled precision

Missouri Learning Standards Code	Missouri Mathematics Learning Standards: Grade Level Expectations, 2016 Grade 6	SuccessMaker Item Description	Item ID
RP	Ratios and Proportional Relationships		
RP.A	Understand and use ratios to solve problems.		
RP.A.3	Solve problems involving ratios and rates.		
RP.A.3.b	Solve unit rate problems.	Find the number of hours worked given the hourly rate and total earned.	SMMA_LO_01625
NS	Number Sense and Operations		
NS.A	Apply and extend previous understandings of multiplication and division to divide fractions by fractions.		
NS.A.1	Compute and interpret quotients of positive fractions.		
NS.A.1.a	Solve problems involving division of fractions by fractions.	Divide a fraction by a fraction; simplify if necessary.	SMMA_LO_01788
		Solve one-step equations (addition and subtraction, fractions).	SMMA_LO_01796
		Divide a mixed number by a fraction; simplify if necessary.	SMMA_LO_01789
NS.B	Compute with non-negative multi-digit numbers, and find common factors and multiples.		
NS.B.1	Demonstrate fluency with division of multi-digit whole numbers.	Practice division using basic facts; dividend, divisor less than or equal to 20.	SMMA_SG_00670
		Practice division using basic facts; dividend, divisor less than or equal to 20.	SMMA_SG_00620
		Practice division using basic facts; dividend, divisor less than or equal to 20.	SMMA_SG_00600
		Divide using the long division algorithm (three-digit number, two-digit divisor, remainder).	SMMA_LO_00304

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NS.B.2	Demonstrate fluency with addition, subtraction, multiplication and division of decimals.	Multiply a whole number or a decimal by 0.1, 0.01, or 0.001.	SMMA_LO_00252
		Divide decimals (0 x 2 to 2 x 5).	SMMA_LO_00251
		Add the decimal numbers provided on a data table.	SMMA_LO_01785
		Multiply decimals (to ten-thousandths x ten-thousandths).	SMMA_LO_00244
		Multiply decimals (to thousandths x hundredths).	SMMA_LO_00234
		Divide decimals (0.3 x 0.3 to 0.9 x 0.09).	SMMA_LO_00245
NS.C	Apply and extend previous understandings of numbers to the system of rational numbers.		
NS.C.2	Locate a rational number as a point on the number line.		
NS.C.2.b	Write, interpret and explain problems of ordering of rational numbers.	Complete statements of order for rational numbers in real-world contexts.	SMMA_LO_02110
NS.C.4	Extend prior knowledge to generate equivalent representations of rational numbers between fractions, decimals and percentages (limited to terminating decimals and/or benchmark fractions of $\frac{1}{3}$ and $\frac{2}{3}$ ).	Express a fraction as a percent (denominator is 100).	SMMA_LO_01714
		Identify decimals or fractions that are not equivalent to a given decimal or fraction.	SMMA_LO_01094
		Identify the division problem that can be used to rewrite a fraction as a decimal.	SMMA_LO_00257
		Find an equivalent mixed number for a decimal (tenths to ten thousandths).	SMMA_LO_00255

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EI	Expressions, Equations and Inequalities		
EI.A	Apply and extend previous understandings of arithmetic to algebraic expressions.		
EI.A.2	Create and evaluate expressions involving variables and whole number exponents.		
EI.A.2.a	Identify parts of an expression using mathematical terminology.	Identify parts of an expression using mathematical terms (sum, term, product, factor, quotient, coefficient).	SMMA_LO_02057
EI.A.2.b	Evaluate expressions at specific values of the variables.	Given the value for the variable, evaluate an addition expression (sums 4 to 12).	SMMA_LO_01683
		Evaluate an expression within a context (multiplication).	SMMA_LO_01740
		Evaluate the expression $mx + c$ or $mx - c$ .	SMMA_LO_01739
		Evaluate an expression with variables using substitution and a value chart (addition, sums to 18).	SMMA_LO_01685
EI.A.2.d	Write and evaluate algebraic expressions.	Given the value for the variable, evaluate an addition expression (sums 4 to 12).	SMMA_LO_01683
		Evaluate an expression within a context (multiplication).	SMMA_LO_01740
		Evaluate the expression $mx + c$ or $mx - c$ .	SMMA_LO_01739
		Evaluate an expression with variables using substitution and a value chart (addition, sums to 18).	SMMA_LO_01685

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EEI.B	Reason about and solve one-variable equations and inequalities.		
EEI.B.1	Use substitution to determine whether a given number in a specified set makes a one-variable 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
EEI.B.5	Recognize that inequalities may have infinitely many solutions.		
EEI.B.5.a	Write an inequality of the form $x > c$ , $x < c$ , $x \geq c$ , or $x \leq c$ to represent a constraint or condition.	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint in a real-world problem.	SMMA_LO_02064
		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
GM	Geometry and Measurement		
GM.A	Solve problems involving area, surface area and volume.		
GM.A.3	Solve problems by graphing points in all four quadrants of the Cartesian coordinate plane.		
GM.A.3.b	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

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DSP	Data Analysis, Statistics and Probability		
DSP.B	Summarize and describe distributions.		
DSP.B.1	Display and interpret data.		
DSP.B.1.a	Use dot plots, histograms and box plots to display and interpret numerical data.	Identify data sets that match the data represented in a given box-and-whiskers plot.	SMMA_LO_01202
		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
		Identify box-and whiskers plot that matches a given set of data.	SMMA_LO_01201
DSP.B.2	Summarize numerical data sets in relation to the context.		
DSP.B.2.c	Give quantitative measures of center (median and/or mean) and variability (interquartile range and/or mean absolute deviation), as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context of the data.	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