

SAVVAS



SuccessMaker®

**Florida B.E.S.T. Standards for Mathematics 2020
Benchmarks for Excellent Student Thinking
Grade 7**

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

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
MA.7.NSO	Number Sense and Operations		
MA.7.NSO.1	Rewrite numbers in equivalent forms.		
MA.7.NSO.1.1	Know and apply the Laws of Exponents to evaluate numerical expressions and generate equivalent numerical expressions, limited to whole-number exponents and rational number bases.	Match expressions with repeated factors to numbers in exponential form to create equations.	SMMA_LO_01100
		Find the missing exponent in a multiplication or division number sentence.	SMMA_LO_01111
		Give the value of a number (1 to 10) raised to a power (1 to 5).	SMMA_LO_01098
MA.7.NSO.1.2	Rewrite rational numbers in different but equivalent forms including fractions, mixed numbers, repeating decimals and percentages to solve mathematical and real-world problems.	Using a model, rewrite a mixed number as a fraction (halves to eighths).	SMMA_LO_00446
		Determine the equivalent decimal for a mixed number.	SMMA_LO_00260
		Complete the equivalence table by expressing a fraction as a decimal number and a percent (round answer to the nearest hundredth).	SMMA_LO_01822
		Rewrite a mixed number as a fraction (fifths to ninths).	SMMA_LO_00450
		Find an equivalent mixed number for a decimal (tenths to ten thousandths).	SMMA_LO_00255
		Complete the equivalence table by expressing a decimal number as a fraction and a percent.	SMMA_LO_01820
		Identify the division problem that can be used to rewrite a fraction as a decimal.	SMMA_LO_00257
		Complete the equivalence table by expressing a decimal number as a fraction and a percent (round answer to the nearest hundredth).	SMMA_LO_01821
		Determine the fraction and decimal that represent a model (base-ten blocks, tenths, 0.1 to 0.9).	SMMA_LO_00185

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
		Fractions and Decimals Targeted Lesson 14: Simplifying Fractions	
		Ratios and Equations Targeted Lesson 16: Relating Percents, Decimals, and Fractions	
		Fractions and Decimals Targeted Lesson 29: Equivalent Decimals and Fractions	
MA.7.NSO.2	Add, subtract, multiply and divide rational numbers.		
MA.7.NSO.2.1	Solve mathematical problems using multi-step order of operations with rational numbers including grouping symbols, whole-number exponents and absolute value.	Find the missing exponent in a multiplication or division number sentence.	SMMA_LO_01111
		Find three consecutive integers when given their sum.	SMMA_LO_01639
		Match expressions with repeated factors to numbers in exponential form to create equations.	SMMA_LO_01100
		Students use calculations on rational numbers to figure out the speed at which James Cameron descended into Mariana Trench.	SMMA_LO_02514
		Multiply or divide two numbers with exponents (same base, exponents less than 18).	SMMA_LO_01104
		Ratios and Equations Targeted Lesson 5: Absolute Value	
MA.7.NSO.2.2	Add, subtract, multiply and divide rational numbers with procedural fluency.	Find the missing negative addend in a number sentence (sums 1 to 8).	SMMA_LO_00105
		Find the missing addend in a number sentence (missing addends -10 to 10, sums -20 to 20).	SMMA_LO_00110
		Find the missing addend in a number sentence (sums -20 to 20).	SMMA_LO_00122
		Evaluate the expression $-(-a - b)$, where a and b have values from 1 to 9.	SMMA_LO_01532
		Find the missing subtrahend in a number sentence (minuends 0 to 10, subtrahends 2 to 11, negative differences).	SMMA_LO_01509

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
		Evaluate $-(-a + b)$, where $1 < a$, $b < 9$.	SMMA_LO_00128
		Evaluate the expression $-(a - b)$, where a and b have values from 1 to 9.	SMMA_LO_01531
		Find the missing two-digit addend in a number sentence (sums are 0, missing addend is first).	SMMA_LO_00104
		Find the missing addend in a number sentence (three addends, -10 to 10).	SMMA_LO_00123
		Find the missing two-digit addend in a number sentence (sums are 0).	SMMA_LO_00103
		Find the missing subtrahend in a number sentence (minuends - 9 to 0, differences -9 to 0).	SMMA_LO_01512
		Find the missing positive or negative factor in a number sentence.	SMMA_LO_00918
		Ratios and Equations Targeted Lesson 6: Adding Positive and Negative Numbers	
		Ratios and Equations Targeted Lesson 7: Subtracting Positive and Negative Numbers	
		Ratios and Equations Targeted Lesson 8: Relating Addition and Subtraction of Positive and Negative Numbers	
		Ratios and Equations Targeted Lesson 9: Multiplying and Dividing Positive and Negative Numbers	
		Ratios and Equations Targeted Lesson 10: Determining the Sign	
MA.7.NSO.2.3	Solve real-world problems involving any of the four operations with rational numbers.	Find three consecutive integers when given their sum.	SMMA_LO_01639
		Students use calculations on rational numbers to figure out the speed at which James Cameron descended into Mariana Trench.	SMMA_LO_02514

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
MA.7.AR	Algebraic Reasoning		
MA.7.AR.1	Rewrite algebraic expressions in equivalent forms.	Apply the properties of operations to generate equivalent expressions.	SMMA_LO_02059
		Rewrite an expression from context by factoring and combining like terms.	SMMA_LO_02150
MA.7.AR.1.1	Apply properties of operations to add and subtract linear expressions with rational coefficients.	Apply properties of operations to add two linear expressions.	SMMA_LO_02149
MA.7.AR.1.2	Determine whether two linear expressions are equivalent.	Identify $a \times (b - c)$ as equivalent to $(a \times b) - (a \times c)$ with variables.	SMMA_LO_01533
		Identify $-a - b$ as equivalent to $-a + (-b)$ (minuends -20 to -1).	SMMA_LO_01515
		Identify $-(a - b)$ as equivalent to $-a + b$ with variables.	SMMA_LO_01529
		Identify $-a - (-b)$ as equivalent to $-a + b$ (minuends and subtrahends -9 to 9).	SMMA_LO_01521
		Identify $-(a - b)$ as equivalent to $-a + b$ (a and b from 1 to 9).	SMMA_LO_01523
		Identify an equivalent expression for $a \times (b + c)$ with variables.	SMMA_LO_00129
		Identify $-(-a - b)$ as equivalent to $a + b$ with variables.	SMMA_LO_01530
		Identify $-(a + b)$ as equivalent to $-a + (-b)$, where a and b are 1 to 9.	SMMA_LO_00115
		Identify $-(a + b)$ as equivalent to $-a - b$, where a and b are 1 to 9.	SMMA_LO_00116
		Identify an equivalent expression with integers (four one-digit addends).	SMMA_LO_00117
		Identify $-(-a - b)$ as equivalent to $a + b$ (a and b from 1 to 9).	SMMA_LO_01524
		Identify $a \times (b - c)$ as equivalent to $(a \times b) - (a \times c)$.	SMMA_LO_00130
		Identify $-(a + b)$ as equivalent to $-a - b$, where a and b are 1 to 9.	SMMA_LO_00118
		Identify $a \times (b - c)$ as equivalent to $(a \times b) - (a \times c)$.	SMMA_LO_01534
		Identify an equivalent expression of commutativity for addition of integers.	SMMA_LO_00114
		Choose all expressions that are equivalent to a given expression.	SMMA_LO_02060

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
		Identify an equivalent variable expression $-(a + b) = -a + (-b)$.	SMMA_LO_00124
		Identify $a - (-b)$ as equivalent to $a + b$ (minuends 1 to 10).	SMMA_LO_01517
		Ratios and Equations Targeted Lesson 24: Equivalent Expressions	
MA.7.AR.2	Write and solve equations and inequalities in one variable.		
MA.7.AR.2.1	Write and solve one-step inequalities in one variable within a mathematical context and represent solutions algebraically or graphically.	Represent solutions for one-variable, one-step equations and inequalities on a number line.	SMMA_LO_00357
		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
		Solve an inequality of the form $px + q > r$ or $px + q < r$; then graph the solution on a number line.	SMMA_LO_02084
		Ratios and Equations Targeted Lesson 28: Solving Inequalities	
MA.7.AR.2.2	Write and solve two-step equations in one variable within a mathematical or real-world context, where all terms are rational numbers.	Choose a method to solve a two-step problem.	SMMA_LO_01289
		Use data from a bar graph and equations that represent the situation to find how many snacks are needed for Fitness Day	SMMA_LO_02500
		Identify the missing information needed to solve a two-step problem; then solve the problem.	SMMA_LO_01274
		Work backward to solve a two-step problem.	SMMA_LO_01288
		Multiplication and Division Targeted Lesson 16: Hidden Questions and First-Step Equations	

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
MA.7.AR.3	Use percentages and proportional reasoning to solve problems.	Find a percent of a money amount (\$0.80 to \$10.80).	SMMA_LO_00270
		Solve a problem in context using proportions.	SMMA_LO_01635
		Identify the correct proportion for the context, and then solve.	SMMA_LO_01826
		Find the number of grams that represents a percentage of the total weight (whole numbers).	SMMA_LO_01636
		Solve a proportion problem in context.	SMMA_LO_01284
		Find the total cost, given an amount and the sales tax percentage.	SMMA_LO_00178
		Students use percents to interpret increase in number of views on a video.	SMMA_LO_02512
		Determine the fraction needed to complete the proportion.	SMMA_LO_01827
		Ratios and Equations Targeted Lesson 17: What Does the Percent Refer To?	
		Ratios and Equations Targeted Lesson 18: Solving Percent Problems	
MA.7.AR.3.1	Apply previous understanding of percentages and ratios to solve multi-step real-world percent problems.	Calculate and compare percentages to find the best free basketball throw shooter.	SMMA_LO_00270
		Find the number of grams that represents a percentage of the total weight (whole numbers).	SMMA_LO_01636
		Find the percent given the whole and the part.	SMMA_LO_00276
		Find total earnings for two to four weeks given the weekly salary, commission percentage, and total sales (whole number percents).	SMMA_LO_01637
		Find the percent given the whole and the part.	SMMA_LO_00276
		Students use percents to interpret increase in number of views on a video.	SMMA_LO_02512
		Ratios and Equations Targeted Lesson 17: What Does the Percent Refer To?	
		Ratios and Equations Targeted Lesson 18: Solving Percent Problems	

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
MA.7.AR.3.2	Apply previous understanding of ratios to solve real-world problems involving proportions.	Solve a problem in context using proportions.	SMMA_LO_01635
		Identify the correct proportion for the context, and then solve.	SMMA_LO_01826
		Solve a proportion problem in context.	SMMA_LO_01284
		Students use percents to interpret increase in number of views on a video.	SMMA_LO_02512
		Determine the fraction needed to complete the proportion.	SMMA_LO_01827
MA.7.AR.4	Analyze and represent two-variable proportional relationships.	Students use proportions to calculate their weight on Mars.	SMMA_LO_02513
MA.7.AR.4.1	Determine whether two quantities have a proportional relationship by examining a table, graph or written description.	Find missing values in a table that represents a proportional relationship, and plot the pairs of values on the coordinate plane.	SMMA_LO_02115
MA.7.AR.4.2	Determine the constant of proportionality within a mathematical or real-world context given a table, graph or written description of a proportional relationship.	Identify two unit rates for a given word problem.	SMMA_LO_02114
		Identify the unit rate given a table, a graph, an equation, a diagram, or a word problem.	SMMA_LO_02001
		Identify the constant of proportionality given a table, a graph, an equation, a diagram, or a word problem.	SMMA_LO_02002
		Ratios and Equations Targeted Lesson 12: Rates, Formulas, and Graphs	
		Ratios and Equations Targeted Lesson 14: Graphing Proportional Relationships	
MA.7.AR.4.3	Given a mathematical or real-world context, graph proportional relationships from a table, equation or a written description.	Graph proportional relationships and interpret the unit rate as the slope of the graph.	SMMA_LO_02073
		Students write, graph, and compare two linear functions in order to find the best price for football jerseys.	SMMA_LO_02516
		Ratios and Equations Targeted Lesson 13: Identifying Proportional Relationships	

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
		Ratios and Equations Targeted Lesson 14: Graphing Proportional Relationships	
MA.7.AR.4.4	Given any representation of a proportional relationship, translate the representation to a written description, table or equation.	Students use proportions to calculate their weight on Mars.	SMMA_LO_02513
		Compare a proportional relationship represented as a graph to a proportional relationship represented as a table.	SMMA_LO_02074
		Find missing values in a table that represents a proportional relationship, and plot the pairs of values on the coordinate plane.	SMMA_LO_02115
		Ratios and Equations Targeted Lesson 13: Identifying Proportional Relationships	
		Ratios and Equations Targeted Lesson 14: Graphing Proportional Relationships	
MA.7.AR.4.5	Solve real-world problems involving proportional relationships.	Solve a problem in context using proportions.	SMMA_LO_01635
		Identify the correct proportion for the context, and then solve.	SMMA_LO_01826
		Solve a proportion problem in context.	SMMA_LO_01284
		Determine the fraction needed to complete the proportion.	SMMA_LO_01827
MA.7.GR	Geometric Reasoning		
MA.7.GR.1	Solve problems involving two-dimensional figures, including circles.	Find the area of a rectangle using a formula.	SMMA_LO_00810
		Measure the radius of a circle, and then determine the area.	SMMA_LO_01783
		Measure the diameter of a circle, and then determine the area.	SMMA_LO_01781
		Multiply side lengths to find the area of a rectangle in a real-world context; use area to represent a whole-number product by arranging tiles in a rectangle.	SMMA_LO_02030
		Find the area of a rectangle (5 to 25 square centimeters).	SMMA_LO_00773

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
		Find the area of a rectangle (36 to 144 customary or metric square units).	SMMA_LO_00173
		Decompose Shapes into triangles and rectangles to find the area.	SMMA_LO_02168
		Determine side lengths and areas in squares, and side lengths and volumes in cubes.	SMMA_LO_02217
		Multiplication and Division Targeted Lesson 23: Counting and Calculating the Area of Rectangles	
		Multiplication and Division Targeted Lesson 24: Matching Areas of Rectangles	
MA.7.GR.1.1	Apply formulas to find the areas of trapezoids, parallelograms and rhombi.	Use a formula to find the area of a parallelogram.	SMMA_LO_00824
MA.7.GR.1.2	Solve mathematical or real-world problems involving the area of polygons or composite figures by decomposing them into triangles or quadrilaterals.	Find the combined area of two walkways and the total cost of paving stones to cover the walkway.	SMMA_LO_02501
		Find the sum of the areas of two figures (sums 3 to 8, nonstandard units).	SMMA_LO_00752
		Find the area of a rectilinear figure in a context by decomposing it into two rectangles.	SMMA_LO_02032
		Tile a rectangle to find its area; represent the area of the rectangle in two different ways (length times width and the sum of the areas of two smaller rectangles).	SMMA_LO_02031
		Decompose Shapes into triangles and rectangles to find the area.	SMMA_LO_02168

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
MA.7.GR.1.3	Explore the proportional relationship between circumferences and diameters of circles. Apply a formula for the circumference of a circle to solve mathematical and real-world problems.	Measure the radius of a circle, and then determine the circumference.	SMMA_LO_01780
		Given the radius, find the circumference of a circle within context.	SMMA_LO_01855
		Find the circumference, given the length of the diameter or the radius ($\pi = 3.14$).	SMMA_LO_00828
		Given the diameter, find the circumference of a circle within context.	SMMA_LO_01856
		Determine the most accurate representation of the circumference of a circle.	SMMA_LO_01784
		Measure the diameter of a circle, and then determine the circumference.	SMMA_LO_01779
MA.7.GR.1.4	Explore and apply a formula to find the area of a circle to solve mathematical and real-world problems.	Measure the radius of a circle, and then determine the area.	SMMA_LO_01783
		Measure the diameter of a circle, and then determine the area.	SMMA_LO_01781
MA.7.GR.2	Solve problems involving three-dimensional figures, including right circular cylinders.	Use a formula to find the volume of a cylinder.	SMMA_LO_00839
		Identify the net that forms a three-dimensional solid.	SMMA_LO_01772
		Identify the net for a geometric solid.	SMMA_LO_00675
MA.7.DP	Data Analysis and Probability		
MA.7.DP.1	Represent and interpret numerical and categorical data.	Use data from a bar graph and equations that represent the situation to find how many snacks are needed for Fitness Day.	SMMA_LO_02500
		Read and interpret a line plot.	SMMA_LO_01764
		Identify data sets that match the data represented in a given box-and-whiskers plot.	SMMA_LO_01202
		Read and interpret data in a table to determine the wind chill temperature.	SMMA_LO_01314
		Read and interpret a line graph.	SMMA_LO_01206

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
		Given a chart of tree growth, infer which of two years there was more rainfall.	SMMA_LO_01305
		Graph and interpret rainfall data in a chart.	SMMA_LO_01328
		Identify all the towns with temperatures below 32 degrees Fahrenheit on a weather map.	SMMA_LO_01311
		Read and interpret data from a circle graph labeled with percents.	SMMA_LO_01208
MA.7.DP.1.1	Determine an appropriate measure of center or measure of variation to summarize numerical data, represented numerically or graphically, taking into consideration the context and any outliers.	Identify the measure of center that best summarizes the data in a graph.	SMMA_LO_02202
MA.7.DP.1.2	Given two numerical or graphical representations of data, use the measure(s) of center and measure(s) of variability to make comparisons, interpret results and draw conclusions about the two populations.	Use MAD to identify the difference between the means of two data distributions.	SMMA_LO_02177
MA.7.DP.1.4	Use proportional reasoning to construct, display and interpret data in circle graphs.	Select a table that contains data that are in the same proportions as the sectors of a graph.	SMMA_LO_01162
MA.7.DP.1.5	Given a real-world numerical or categorical data set, choose and create an appropriate graphical representation.	Use data from a bar graph and equations that represent the situation to find how many snacks are needed for Fitness Day	SMMA_LO_02500
		Graph and interpret rainfall data in a chart.	SMMA_LO_01328
MA.7.DP.2	Develop an understanding of probability. Find and compare experimental and theoretical probabilities.	Determine the event that is most or least likely; then conduct a simulation in which the results are recorded so that theoretical and experimental probability can be compared.	SMMA_LO_01738
		Determine theoretical and experimental probabilities.	SMMA_LO_02204
MA.7.DP.2.2	Given the probability of a chance event, interpret the likelihood of it occurring. Compare the probabilities of chance events.	Determine the event that is most or least likely; then conduct a simulation in which the results are recorded so that theoretical and experimental probability can be compared.	SMMA_LO_01738

Florida B.E.S.T. Standards' Codes	Florida B.E.S.T. Standards for Mathematics Grade 7	SuccessMaker Item Descriptions	Item IDs
		Given a graphical representation of a spinner partitioned into sectors of different sizes, each containing one of several possible pictures, label events as certain or impossible or pairs of events as more, less, or equally likely.	SMMA_LO_01212
MA.7.DP.2.3	Find the theoretical probability of an event related to a simple experiment.	Determine whether a chronological event is certain or impossible.	SMMA_LO_01137
		Determine theoretical and experimental probabilities.	SMMA_LO_02204
MA.7.DP.2.4	Use a simulation of a simple experiment to find experimental probabilities and compare them to theoretical probabilities.	Determine the event that is most or least likely; then conduct a simulation in which the results are recorded so that theoretical and experimental probability can be compared.	SMMA_LO_01738

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