Houghton Mifflin Harcourt
Florida's B.E.S.T. Into Math, Grade 7 ©2023

correlated to the

Access Points to Florida's B.E.S.T. Standards: Mathematics (2021)
Grade 7

Standard	Descriptor	Citations	
Strand: NUMBER SENSE AND OPERATIONS			
Standard 1: Rewrite numbers in equivalent forms.			
MA.7.NSO.1.AP.1	Use properties of whole number exponents to produce equivalent expressions.	SE/TE: TE Only:	198–204 197B–197C
MA.7.NSO.1.AP.2	Rewrite positive rational numbers in different but equivalent forms such as fractions, mixed numbers, repeating decimals and/or percentages to solve problems.	SE/TE: TE Only:	181–187, 189–193, 228 181C, 189B–189C, 227C
Standard 2: Add, subtract, multiply and divide rational numbers.			
MA.7.NSO.2.AP.1	Solve mathematical problems, using no more than four operations, with rational numbers including grouping symbols, whole-number exponents and absolute value.	SE/TE: TE Only:	199, 201, 203, 215–220, 228 215C
MA.7.NSO.2.AP.2	Using tools or models, add, subtract, multiply and divide rational numbers.	SE/TE: TE Only:	139–146, 148–149, 167–168, 172, 175, 205–206 139C, 147C, 167B–167C, 205C
MA.7.NSO.2.AP.3	Using tools or models, solve real-world problems involving any of the four operations with rational numbers.	SE/TE: TE Only:	139–146, 148, 167–168, 172, 175, 205–206 205C
Strand: ALGEBRAIC REASONING			
Standard 1: Rewrite algebraic expressions in equivalent forms.			
MA.7.AR.1.AP.1	Add and subtract linear expressions that include like terms.	SE/TE: TE Only:	250–256 249C

Standard	Descriptor	Citations	
MA.7.AR.1.AP.2	Use tools or manipulatives to compare two linear expressions, with no more than two operations, to determine whether they are equivalent.	SE/TE: TE Only:	241, 249, 257 241C, 241D, 249C, 249D, 257C, 257D
Standard 2: Write and solve equations and inequalities in one variable.			
MA.7.AR.2.AP.1	Select a one-step inequality from a list that represents a real-world situation and given a set of three or fewer values, use substitution to solve.	SE/TE: TE Only:	282-290 283C, 283D
MA.7.AR.2.AP.2a	Set up two-step equations in one variable based on real-world problems.	SE/TE: TE Only:	257, 259–262, 264–270 257B–257C, 263C
MA.7.AR.2.AP.2b	Solve two-step equations in one variable based on real-world problems, where all terms have positive integer coefficients.	SE/TE: TE Only:	264–270 263C
Standard 3: Use percentages and proportional reasoning to solve problems.			
MA.7.AR.3.AP.1	Solve simple percentage problems in real-world contexts.	SE/TE: TE Only:	93–100, 101–108, 109–116, 117–124, 125–132 93C, 101C, 109C, 117C
MA.7.AR.3.AP.2	Solve simple ratio problems in real-world contexts.	SE/TE: TE Only:	5–10, 59–66, 67–72 5B–5C, 51B, 59B–59C, 67B
MA.7.AR.3.AP.3	Use tools to solve real-world problems involving conversion of units in the same measurement system.	SE/TE: TE Only:	73–74, 76, 78–80 73C
Standard 4: Analyze and represent two-variable proportional relationships.			
MA.7.AR.4.AP.1	Given a table or a graph, determine whether two quantities have a proportional relationship.	SE/TE: TE Only:	11–18, 28–33, 41–42, 44–45 3B, 41B–41C, 49B
MA.7.AR.4.AP.2	Identify the constant of proportionality when given a table or graph of a proportional relationship.	SE/TE: TE Only:	11–18, 28–31, 33, 74, 77–78 3B, 41C, 49B

Standard	Descriptor	Citations	
MA.7.AR.4.AP.3	Given a table or equation, graph a proportional relationship.	SE/TE: TE Only:	28–31, 33, 42–46, 74 27C, 41C
MA.7.AR.4.AP.4	Given a table representation of a proportional relationship, translate the relationship into an equation or a graph.	SE/TE: TE Only:	13–18, 28–31, 33, 74–77, 79 49B
MA.7.AR.4.AP.5	Solve simple real-world problems involving proportional relationships.	SE/TE: TE Only:	1–2, 19–26, 73–80, 81–88, 93–100, 101–108, 109–116, 117–124, 125–132, 136 35C, 93C, 101B–101C, 109B–109C, 117B–117C, 125B–125C
Strand: GEOMETRIC REASONING			
Standard 1: Solve problems involving two-dimensional figures, including circles.			
MA.7.GR.1.AP.1	Given the formulas, find the area of parallelograms and rhombi.	SE/TE: TE Only:	312–318, 328–334 311C
MA.7.GR.1.AP.2	Decompose complex shapes (polygon, trapezoid, and pentagon) into simple shapes (rectangles, squares, triangles) to measure area.	SE/TE: TE Only:	319, 321, 335–340 319C
MA.7.GR.1.AP.3	Apply a given formula for the circumference of a circle to solve mathematical problems.	SE/TE: TE Only:	299–302 297C
MA.7.GR.1.AP.4	Apply a given formula to find the area of a circle to solve mathematical problems.	SE/TE: TE Only:	305–310 303C
MA.7.GR.1.AP.5	Use a scale factor to draw a scale drawing of a real-world two-dimensional polygon on graph paper.	SE/TE: TE Only:	82–83, 86 81C
Standard 2: Solve problems involving three-dimensional figures, including right circular cylinders.			
MA.7.GR.2.AP.1	Match the parts of a given formula to the right circular cylinder using the figure's net.	SE/TE: TE Only:	346–347 345C

Standard	Descriptor	Citations	
MA.7.GR.2.AP.2	Given the formula, use tools to find the surface area of a right circular cylinder using the figure's net.	SE/TE: TE Only:	348–352, 363 345C
MA.7.GR.2.AP.3	Given a formula, use tools to calculate the volume of right circular cylinders.	SE/TE: TE Only:	354–360, 361, 363 353C, 361C
Strand: DATA ANALYSIS AND PROBABILITY			
Standard 1: Represent and interpret numerical and categorical data.			
MA.7.DP.1.AP.1	Use context to determine the appropriate measure of center (mean or median) or range to summarize a numerical data set with 10 or fewer elements, represented numerically or graphically.	SE/TE: TE Only:	385–386, 388, 399, 402 383C
MA.7.DP.1.AP.2	Given two numerical or graphical representations of data in the same form, compare the mean, median or range of each representation.	SE/TE: TE Only:	391–396, 397, 399, 401–402, 403–408, 409–414 373B, 391C, 397C, 409C
MA.7.DP.1.AP.3	Given data from a random sample of the population, select from a list an appropriate prediction about the population based on the data.	SE/TE: TE Only:	66, 375-382 375C
MA.7.DP.1.AP.4	Use proportional reasoning to interpret data in a pie chart.	SE/TE:	68–71
MA.7.DP.1.AP.5	Given a data set, select an appropriate graphical representation (histogram, bar chart, or line plot).	SE/TE: TE Only:	375–378, 382 375B–375C
Standard 2: Develop an understanding of probability. Find and compare experimental and theoretical probabilities.			
MA.7.DP.2.AP.1	Use tree diagrams, frequency tables, organized lists, and/or simulations to collect data from a simple experiment.	SE/TE: TE Only:	421–422, 424–425, 429–430, 435–442 427C, 435C
MA.7.DP.2.AP.2	Given the probability of a simple chance event written as a fraction, percentage or decimal between 0 and 1, determine how likely is it that an event will occur.	SE/TE: TE Only:	420, 422-426 419C
MA.7.DP.2.AP.3	Determine the theoretical probability of a simple chance event.	SE/TE: TE Only:	427–434, 435–436 427C

Standard	Descriptor	Citations	
MA.7.DP.2.AP.4	Conduct a simple experiment to find experimental probabilities.	SE/TE: TE Only:	430, 435–436, 438–440 427C, 435C