

Houghton Mifflin Harcourt
Florida's B.E.S.T. Into Math, Grade 6 ©2023

correlated to the

Access Points to Florida's B.E.S.T. Standards: Mathematics (2021)
Grade 6

Standard	Descriptor	Citations
Strand: NUMBER SENSE AND OPERATIONS		
Standard 1: Extend knowledge of numbers to negative numbers and develop an understanding of absolute value.		
MA.6.NSO.1.AP.1	Plot, order and compare rational numbers (positive and negative integers within 10 from 0, fractions with common denominators, decimals up to the hundredths and percentages) in the same form.	SE/TE: 7–12, 13–20, 30, 39, 54, 57–70, 76, 93–98, 110, 134, 150, 168, 326, 346–347, 349–350, 356–357, 359–363, 366, 378 TE only: 5B, 13B, 24, 221B
MA.6.NSO.1.AP.2	Represent positive and negative numbers in the same form on a number line given a real-world situation and explain the meaning of zero within its context.	SE/TE: 5–12, 14–15–17, 93, 95 TE only: 34
MA.6.NSO.1.AP.3	Find absolute value of the numbers from –30 to 30 using a number line.	SE/TE: 21–22, 28, 30, 61, 99 TE only: 31B, 65B
MA.6.NSO.1.AP.4	Use manipulatives, models or tools to compare absolute value in mathematical and real-world problems.	SE/TE: 22 TE only: 59B
Standard 2: Add, subtract, multiply and divide positive rational numbers.		
MA.6.NSO.2.AP.1	Solve one-step multiplication and division problems involving positive decimals whose place value ranges from the tens to the hundredths places.	SE/TE: 169–174, 175–180, 181–186, 188–192, 196, 212, 220, 270, 430 TE only: 235B, 243B
MA.6.NSO.2.AP.2	Use tools to calculate the product and quotient of positive fractions by positive fractions, including mixed numbers, using the standard algorithms.	SE/TE: 104–105, 110, 112–116, 123–124, 128–129, 132, 136, 144

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Standard	Descriptor	Citations
MA.6.NSO.2.AP.3a	Solve one-step real-world problems involving any of the four operations with positive decimals ranging from the hundreds to hundredth place value.	SE/TE: 187–192, 193–198, 262, 274, 406, 488, 496 TE only: 205B
MA.6.NSO.2.AP.3b	Solve one-step real-world problems involving any of the four operations with positive fractions and mixed numbers with like denominators.	SE/TE: 117–122, 123–124, 151–156, 157–164, 165–166, 220, 298
Standard 3: Apply properties of operations to rewrite numbers in equivalent forms.		
MA.6.NSO.3.AP.1	Use tools to find the greatest common factor and least common multiple of two whole numbers 50 or less.	SE/TE: 71–72, 86–87
MA.6.NSO.3.AP.2	Use the distributive property to express a number as the sum of two whole numbers multiplied by a common factor.	SE/TE: 72, 74, 77–78, 86–87, 89–90, 92, 294, 297
MA.6.NSO.3.AP.3a	Identify what an exponent represents (e.g., $8^3 = 8 \times 8 \times 8$).	SE/TE: 79–84, 116, 122, 292–296, 322, 342 TE only: 307B
MA.6.NSO.3.AP.3b	Solve numerical expressions involving whole-number bases and exponents (e.g., $5 + 24 \times 6 = 101$).	SE/TE: 293, 296–298, 454
MA.6.NSO.3.AP.4	Use a tool to show the prime factors of a number (e.g., $20 = 2 \times 2 \times 5$).	SE/TE: 85–86
MA.6.NSO.3.AP.5	Rewrite a number 3 or less, as a fraction, decimal or a percent.	SE/TE: 253–254, 257–262, 266, 273, 278–284, 286, 430
Standard 4: Extend understanding of operations with integers.		
MA.6.NSO.4.AP.1	Use tools to add and subtract integers between 50 and –50.	SE/TE: 33, 38, 40–41, 48 TE only: 39B
MA.6.NSO.4.AP.2	Use tools to multiply and divide integers between 20 and –20.	SE/TE: 49
Strand: ALGEBRAIC REASONING		
Standard 1: Apply previous understanding of arithmetic expressions to algebraic expressions.		
MA.6.AR.1.AP.1	Write or select an algebraic expression that represents a real-world situation.	SE/TE: 300–306, 454
MA.6.AR.1.AP.2	Write or select an inequality that represents a real-world situation.	SE/TE: 357, 359–363, 366

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Standard	Descriptor	Citations
MA.6.AR.1.AP.3	Solve an expression using substitution with no more than two operations.	SE/TE: 307–314, 315b, 315, 322, 324, 326, 508
MA.6.AR.1.AP.4	Use tools or models to combine like terms in an expression with no more than four operations.	SE/TE: 318, 321
Standard 2: Develop an understanding for solving equations and inequalities. Write and solve one-step equations in one variable.		
MA.6.AR.2.AP.1	Choose which values, from a set of five or fewer integers, make an equation or inequality true.	SE/TE: 331–333, 359–362, 365–355
MA.6.AR.2.AP.2	Solve real-world, one-step linear equations using addition and subtraction involving integers.	SE/TE: 328–334, 336–342, 351–356
MA.6.AR.2.AP.3	Solve real-world, one-step linear equations using multiplication and division involving integers.	SE/TE: 330–331, 333–334, 342, 351–356, 365–366
MA.6.AR.2.AP.4	Solve a one-step equation using fractions with like denominators or decimals with place value ranging from the thousand to the thousandths.	SE/TE: 338–340, 346–349, 351, 354–355, 366, 386
Standard 3: Understand ratio and unit rate concepts and use them to solve problems.		
MA.6.AR.3.AP.1	Given a real-world context, write and interpret ratios to show the relative sizes of two quantities using notation: a/b , a to b , or $a:b$ where $b \neq 0$ with guidance and support.	SE/TE: 205–212, 214, 216–217, 223, 226, 236, 239, 251–252, 262, 266, 268, 284 TE only: 227b
MA.6.AR.3.AP.2	Given a rate, calculate the unit rate for a ratio with different units.	SE/TE: 215–220, 227–234, 252, 262, 342, 344–350, 402, 496
MA.6.AR.3.AP.3	Given a visual representation, write or select a ratio that describes the ratio relationship between part-to-part and part-to-whole ratios.	SE/TE: 206–208, 212, 222, 224–225, 237–239, 241, 252
MA.6.AR.3.AP.4	Calculate a percentage of quantity as rate per 100 using models (e.g., percent bars or 10×10 grids).	SE/TE: 256–261, 264, 267, 269, 271, 273, 275, 277, 285–286
MA.6.AR.3.AP.5a	Use tools, models or manipulatives to solve problems involving ratio relationships including mixtures and ratios of length.	SE/TE: 203, 213–214, 221, 224, 235–242, 255

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Standard	Descriptor	Citations
MA.6.AR.3.AP.5b	Use tools, models or manipulatives to solve ratio, rate or unit rate problems involving conversions within the same measurement system.	SE/TE: 243–250, 251
Strand: GEOMETRIC REASONING		
Standard 1: Apply previous understanding of the coordinate plane to solve problems.		
MA.6.GR.1.AP.1	Plot integer ordered pairs in all four quadrants and on both axes.	SE/TE: 4, 370–378, 380–386, 393–394, 397–399, 403
MA.6.GR.1.AP.2	Count the distance between two ordered pairs with the same x-coordinate or the same y-coordinate.	SE/TE: 389, 391–394, 401–402, 403–404
MA.6.GR.1.AP.3	Given a rectangle plotted on the coordinate plane, find the perimeter or area of the rectangle.	SE/TE: 395–402, 403–404, 405
Standard 2: Model and solve problems involving two-dimensional figures and three-dimensional figures.		
MA.6.GR.2.AP.1	Given the formula, find the area of a triangle.	SE/TE: 408–410, 423–425
MA.6.GR.2.AP.2	Decompose quadrilaterals and composite figures into simple shapes (rectangles or triangles) to measure area.	SE/TE: 416–422, 423–430, 432, 434, 442
MA.6.GR.2.AP.3	Given a real-world problem, find the volume of a rectangular prism using a visual model and the formula.	SE/TE: 433, 444–448, 449–454, 455–456
MA.6.GR.2.AP.4	Find the surface area of right rectangular prisms by adding the areas of the shapes forming the two-dimensional net.	SE/TE: 436, 438, 440–441, 449, 455–456
Strand: DATA ANALYSIS AND PROBABILITY		
Standard 1: Develop an understanding of statistics and determine measures of center and measures of variability. Summarize statistical distributions graphically and numerically.		
MA.6.DP.1.AP.1	Identify statistical questions from a list that would generate numerical data.	SE/TE: 462–468, 492–493
MA.6.DP.1.AP.2a	Use tools to identify and calculate the mean, median, mode and range represented in a set of data with no more than five elements.	SE/TE: 469–474, 475–480
MA.6.DP.1.AP.2b	Identify and explain what the mean and mode represent in a set of data with no more than five elements.	SE/TE: 470, 499
MA.6.DP.1.AP.3	Given a box plot, identify the value of the minimum, the lower quartile, the median, the upper quartile and the maximum.	SE/TE: 510–516, 529
MA.6.DP.1.AP.4	Given a histogram or a line plot, describe the physical features of the graph.	SE/TE: 490, 493, 497, 502–508, 523, 525–527, 529, 531

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Standard	Descriptor	Citations
MA.6.DP.1.AP.5	Create histograms to represent sets of numerical data with 10 or fewer elements.	SE/TE: 481, 483–486, 495, 498, 524–527
MA.6.DP.1.AP.6	Calculate and identify changes (increase or decrease) in the median, mode or range when a data value is added or subtracted from a data set.	SE/TE: 475–476, 479, 511