

**Correlation of Continental Press’s *New York State Mathematics* workbook
to the *Grades 3–8 Mathematics Testing Program Guidance, September–April/May–June*
released by the NY State Education Department**

Grade 6

Performance Indicator Code	Performance Indicator	Sept.-April/ May-June Instructional Periods	New York State Mathematics Workbook
Number Sense and Operations			
Number Systems			
6.N.1	Read and write whole numbers to trillions	September-April	Pages 13–16
6.N.2	Define and identify the commutative and associative properties of addition and multiplication	September-April	Pages 29–32
6.N.3	Define and identify the distributive property of multiplication over addition	September-April	Pages 29–32
6.N.4	Define and identify the identity and inverse properties of addition and multiplication	September-April	Pages 29–32
6.N.5	Define and identify the zero property of multiplication	September-April	Pages 29–32
6.N.6	Understand the concept of rate	September-April	Pages 37–40
6.N.7	Express equivalent ratios as a proportion	September-April	Pages 41–44
6.N.8	Distinguish the difference between rate and ratio	September-April	Pages 37–40
6.N.9	Solve proportions using equivalent fractions	September-April	Pages 41–44
6.N.10	Verify the proportionality using the product of the means equals the product of the extremes	September-April	Pages 41–44
6.N.11	Read, write, and identify percents of a whole (0% to 100%)	September-April	Pages 45–48
6.N.12	Solve percent problems involving percent, rate, and base	September-April	Pages 49–52
6.N.13	Define absolute value and determine the absolute value of rational numbers (including positive and negative)	September-April	Pages 53–56
6.N.14	Locate rational numbers on a number line (including positive and negative)	September-April	Pages 53–56
6.N.15	Order rational numbers (including positive and negative)	September-April	Pages 53–56
Number Sense and Operations			
Operations			
6.N.16	Add and subtract fractions with unlike denominators	September-April	Pages 65–68
6.N.17	Multiply and divide fractions with unlike denominators	September-April	Pages 69-72
6.N.18	Add, subtract, multiply, and divide mixed numbers with unlike denominators	September-April	Pages 65–68, 69-72
6.N.19	Identify the multiplicative inverse (reciprocal) of a number	September-April	Pages 69–72
6.N.20	Represent fractions as terminating or repeating decimals	September-April	Pages 25–28



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Number Sense and Operations Operations			
6.N.21	Find multiple representations of rational numbers (fractions, decimals, and percents 0 to 100)	September-April	Pages 45–48
6.N.22	Evaluate numerical expressions using order of operations (may include exponents of two and three)	September-April	Pages 77–80
6.N.23	Represent repeated multiplication in exponential form	September-April	Pages 73–76
6.N.24	Represent exponential form as repeated multiplication	September-April	Pages 73–76
6.N.25	Evaluate expressions having exponents where the power is an exponent of one, two, or three	September-April	Pages 73–76
Number Sense and Operations Estimation			
6.N.26	Estimate a percent of quantity (0% to 100%)	September-April	Pages 81–84
6.N.27	Justify the reasonableness of answers using estimation (including rounding)	September-April	Pages 81–84
Algebra Variables and Expressions			
6.A.1	Translate two-step verbal expressions into algebraic expressions	September-April	Pages 89–92
6.A.2*	Use substitution to evaluate algebraic expressions (may include exponents of one, two, and three)	September-April	Pages 89–92
Algebra Equations and Inequalities			
6.A.3*	Translate two-step verbal sentences into algebraic equations	September-April	Pages 93–96
6.A.4*	Solve and explain two-step equations involving whole numbers using inverse operations	September-April	Pages 97–100
6.A.5*	Solve simple proportions within context	September-April	Pages 97–100
6.A.6	Evaluate formulas for given input values (circumference, area, volume, distance, temperature, interest, etc.)	September-April	Pages 101–104
Geometry Shapes			
6.G.1	Calculate the length of corresponding sides of similar triangles, using proportional reasoning	September-April	Pages 121–124
6.G.2	Determine the area of triangles and quadrilaterals (squares, rectangles, rhombi, and trapezoids) and develop formulas	September-April	Pages 125–128
6.G.3	Use a variety of strategies to find the area of regular and irregular polygons	September-April	Pages 125–128
6.G.4	Determine the volume of rectangular prisms by counting cubes and develop the formula	September-April	Pages 125–128
6.G.5	Identify radius, diameter, chords, and central angles of a circle	September-April	Pages 133–136, 137–140



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Geometry Shapes			
6.G.6	Understand the relationship between the diameter and radius of a circle	September-April	Pages 133–136
6.G.7	Determine the area and circumference of a circle, using the appropriate formula	September-April	Pages 133–136
6.G.8	Calculate the area of a sector of a circle, given the measure of a central angle and the radius of the circle	September-April	Pages 137–140
6.G.9	Understand the relationship between the circumference and the diameter of a circle	September-April	Pages 133–136
Geometry Coordinate Geometry			
6.G.10*	Identify and plot points in all four quadrants	September-April	Pages 141–144
6.G.11*	Calculate the area of basic polygons drawn on a coordinate plane (rectangles and shapes composed of rectangles having sides with integer lengths)	September-April	Pages 141–144
Measurement Units of Measurement			
6.M.1	Measure capacity and calculate volume of a rectangular prism	September-April	Pages 149–152, 153–156
6.M.2	Identify customary units of capacity (cups, pints, quarts, and gallons)	September-April	Pages 149–152
6.M.3	Identify equivalent customary units of capacity (cups to pints, pints to quarts, and quarts to gallons)	September-April	Pages 149–152
6.M.4	Identify metric units of capacity (liter and milliliter)	September-April	Pages 153–156
6.M.5	Identify equivalent metric units of capacity (milliliter to liter and liter to milliliter)	September-April	Pages 153–156
Measurement Tools and Methods			
6.M.6	Determine the tool and technique to measure with an appropriate level of precision: capacity	September-April	Pages 149–152, 153–156
Measurement Estimation			
6.M.7	Estimate volume, area, and circumference (see figures identified in geometry strand)	September-April	Pages 157–160
6.M.8	Justify the reasonableness of estimates	September-April	Pages 157–160
6.M.9	Determine personal references for capacity	September-April	Pages 157–160
Statistics and Probability Collection of Data			
6.S.1	Develop the concept of sampling when collecting data from a population and decide the best method to collect data for a particular question	May-June	Pages 169–172



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Statistics and Probability			
Organization and Display of Data			
6.S.2	Record data in a frequency table	May-June	Pages 169–172
6.S.3	Construct Venn diagrams to sort data	May-June	Pages 177–180
6.S.4	Determine and justify the most appropriate graph to display a given set of data (pictograph, bar graph, line graph, histogram, or circle graph)	May-June	Pages 173–176
Statistics and Probability			
Analysis of Data			
6.S.5	Determine the mean, mode, and median for a given set of data	September-April	Pages 165–168
6.S.6	Determine the range for a given set of data	September-April	Pages 165–168
6.S.7	Read and interpret graphs	September-April	Pages 173–176
Statistics and Probability			
Predictions from Data			
6.S.8	Justify predictions made from data	September-April	Pages 173–176
Statistics and Probability			
Probability			
6.S.9*	List possible outcomes for compound events	September-April	Pages 189–192
6.S.10*	Determine the probability of dependent events	September-April	Pages 193–196
6.S.11*	Determine the number of possible outcomes for a compound event by using the fundamental counting principle and use this to determine the probabilities of events when the outcomes have equal probability	September-April	Pages 189–192

Key to Performance Indicator Code:	6 .A.1 6 = 6th Grade A = Algebra 1 = Performance Indicator Number
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