

4th Grade Math: GLEs per Nine Weeks

1st Nine Weeks

- GLE 4** Know all basic facts for multiplication and division through 12×12 and $144 \div 12$, and recognize factors of composite numbers less than 50.
- GLE 15** Write number sentences or formulas containing a variable to represent real-life problems
- GLE 19** Solve one-step equations with whole number solutions
- GLE 34** Summarize information and relationships revealed by patterns or trends in a graph, and use the information to make predictions
- GLE 36** Analyze, describe, interpret, and construct various types of charts and graphs using appropriate titles, axis labels, scales, and legends
- GLE 37** Determine which type of graph best represents a given set of discrete data
- GLE 39** Use lists, tables, and tree diagrams to generate and record all possible combinations for 2 sets of 3 or fewer objects (e.g., combinations of pants and shirts, days and games) and for given experiments
- GLE 40** Determine the total number of possible outcomes for a given experiment using lists, tables, and tree diagrams (e.g., spinning a spinner, tossing 2 coins)
- GLE 42** Find and describe patterns resulting from operations involving even and odd numbers (such as even + even = even)
- GLE 44** Represent the relationship in an input-output situation using a simple equation, graph, table, or word description

2nd Nine Weeks

- GLE 1** Read and write place value in word, standard, and expanded form through 1,000,000.
- GLE 2** Read, write, compare, and order whole numbers using place value concepts, standard notation, and models through 1,000,000
- GLE 12** Count money, determine change, and solve simple word problems involving money amounts using decimal notation
- GLE 14** Solve real-life problems, including those in which some information is not given.
- GLE 25** Use estimates and measurements to calculate perimeter and area of rectangular objects (including squares) in U.S. (including square feet) and metric units.
- GLE 26** Estimate the area of an irregular shape drawn on a unit grid
- GLE 27** Use unit conversions within the same system to solve real-life problems (e.g., 60 sec. = 1 min., 12 objects = 1 dozen, 12 in. = 1 ft., 100 cm = 1 m, 1 pt. = 2 cups)
- GLE 29** Identify, describe the properties of, and draw circles and polygons (triangle, quadrilateral, parallelogram, trapezoid, rectangle, square, rhombus, pentagon, hexagon, octagon, and decagon.)
- GLE 30.** Make and test predictions regarding transformations (i.e., slides, flips, and turns) of plane geometric shapes.
- GLE 31** Identify, manipulate, and predict the results of rotations of 90, 180, 270, and 360 degrees on a given
- GLE 43** Identify missing elements in a number pattern.

3rd Nine Weeks

- GLE 5** Read, write, and relate decimals through hundredths and connect them with corresponding decimal fractions
- GLE 6** Model, read, write, compare, order, and represent fractions with denominators through twelfths using region and set models
- GLE 8** Use common equivalent reference points for percents (i.e., $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, and 1 whole)
- GLE 9** Estimate fractional amounts through twelfths, using pictures, models, and diagrams
- GLE 18** Identify and create true/false and open/closed number sentences.
- GLE 22** Select and use the appropriate standard units of measure, abbreviations, and tools to measure length and perimeter (i.e., in., cm, ft., yd., mile, m, km), area (i.e., square inch, square foot, square centimeter), capacity (i.e., fl. oz., cup, pt., qt., gal., l, ml), weight/mass (i.e., oz., lb., g, kg, ton), and volume (i.e., cubic cm, cubic in.)
- GLE 23** Set up, solve, and interpret elapsed time problems
- GLE 24** Recognize the attributes to be measured in a real-life situation
- GLE 28** Identify the top, bottom, or side view of a given 3-dimensional object
- GLE 32** Draw, identify, and classify angles that are acute, right, and obtuse.
- GLE 35** Find and interpret the meaning of mean, mode, and median of a small set of numbers (using concrete objects) when the answer is a whole number

4th Nine Weeks

- GLE 3** Illustrate with manipulatives when a number is divisible by 2, 3, 5, or 10.
- GLE 7** Give decimal equivalents of halves, fourths, and tenths

GLE 10 Solve multiplication and division number sentences including interpreting remainders

GLE 11 Multiply 3-digit by 1-digit numbers, 2-digit by 2-digit numbers, and divide 3-digit numbers by 1-digit numbers, with and without remainders

GLE 13 Determine when and how to estimate, and when and how to use mental math, calculators, or paper/pencil strategies to solve multiplication and division problems

GLE 16 Write a related story problem for a given algebraic sentence

GLE 17 Use manipulatives to represent the distributive property of multiplication over addition to explain multiplying numbers

GLE 20 Measure length to the nearest quarter-inch and mm

GLE 21 Describe the concept of volume, and measure volume using cubic in. and cubic cm and capacity using fl oz and ml

GLE 33 Specify locations of points in the first quadrant of coordinate systems and describe paths on maps

GLE 38 Solve problems involving simple deductive reasoning

GLE 41. Apply appropriate probabilistic reasoning in real-life contexts using games and other activities (e.g., examining fair and unfair situations)