

Fourth Grade Second Semester Math Curriculum Guide

Third Nine Weeks

Angle Measure & Plane Figures

Fraction Equivalence, Ordering, & Operations

4.MD.C.5 Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement

4.MD.C.6 Measure angles in whole-number degrees using a protractor Sketch angles of specified measure 4.MD.C.7 Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the *sum* of the angle measures of the parts Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems

4.G.A.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines

Identify these in two-dimensional figures 4.G.A.2 Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size

Recognize right triangles as a category and identify right triangles

4.G.A.3 Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts

Identify line-symmetric figures and draw lines of symmetry

4.OA.C.5 Generate a number or shape pattern that follows a given rule

Identify apparent features of the pattern that were not explicit in the rule itself

4.NF.A.1

4.NF.A.2

4.NF.B.3

4.MD.B.4 Make a *line plot* to display a data set of measurements in *fractions* of a unit (e.g., $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$)

- Solve problems involving addition and subtraction of *fractions* by using information presented in *line plots*

Fourth Nine Weeks

Decimal Fractions

Exploring Measurement Through Multiplication

4.NF.C.5 Express a *fraction* with *denominator* 10 as an equivalent *fraction* with denominator 100, and use this technique to add two *fractions* with respective *denominators* 10 and 100

4.NF.C.6 Use decimal notation for *fractions* with *denominators* 10 or 100

4.NF.C.7 Compare two decimals to hundredths by reasoning about their size

- Recognize that comparisons are valid only when the two decimals refer to the same whole

Record the results of comparisons using symbols ($>$, $=$, $<$), and justify the conclusions (e.g., by using a visual model)

4.OA.A.3 Solve multistep word problems posed with *whole numbers* and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using *equations* with a letter standing for the unknown quantity Assess the reasonableness of answers using mental computation and estimation strategies including rounding

4.MD.A.1 Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec; yd, ft, in; gal, qt, pt, c

Within a single system of measurement, express measurements in the form of a larger unit in terms of a smaller unit. Record measurement

4.MD.A.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money including the ability to make change; including problems involving simple *fractions* or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit

- Represent measurement quantities using diagrams such as *number line diagrams* that feature a measurement scale