

Anchorage School District Performance Standards Check Sheet

4th Grade Math



	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
4:1 Estimation				
.1 Estimate numbers in multiples of 10 to 1,000,000.				
.2 Decide to what place it is reasonable to round given data.				
.3 Round numbers to estimate the answer to a word problem.				
.4 Estimate volume, capacity, length, and weight using metric, standard and non-standard (personal reference) units.				
4:2 Number Sense				
.1 Order, read, and write numbers from 0 to 1,000,000.				
.2 Use a fraction to name a part of a region.				
.3 Find a fractional part of a set of objects.				
.4 Identify and describe different uses for fractional representations (e.g., division, ratios, or proportions).				
.5 Give equivalent names for whole numbers, fractions and decimals.				
.6 Order fractions using pictures, symbols or models.				
.7 Identify, represent and explain place value using money, models, pictures, symbols, and words.				
.8 Use an array to model and solve a word problem.				
.9 Use models, symbols, pictures and words to identify the factors of a given product.				
.10 Read and write Roman numerals to 100.				
4:3 Concepts of Number Operations				
.1 Use manipulatives to model a strategy or procedure for finding sums, differences, products, and quotients.				
.2 Use manipulatives and diagrams to model and solve word problems involving addition, subtraction, multiplication and division.				
.3 Create and solve word problems using addition, subtraction, multiplication and division.				
.4 Show comparisons as ratios.				
4:4 Computation				
.1 Memorize multiplication and division facts to product of at least 100.				
.2 Multiply by powers of ten.				
.3 Use an algorithm to find a product, using 2 digit multipliers.				
.4 Use an algorithm to find the quotient of multi-digit dividend, using a one digit divisor.				
.5 Compute sums, differences, products, and quotients using money.				
.6 Use mental math when appropriate.				
.7 Use a calculator when appropriate.				
.8 Use an alternative or opposite operation to verify a solution.				
4:5 Geometry				
.1 Draw and label parallel and perpendicular lines.				
.2 Classify angles as right, obtuse, acute or straight.				
.3 Classify polygons and other two dimensional figures from visual and verbal clues.				
.4 Identify and describe properties of polygons.				
.5 Identify, classify, and compare various triangles and quadrilaterals according to their sides and /or angles.				
.6 Locate points specified by ordered pairs, on a rectangular coordinate grid.				
.7 Use a line of reflection to complete symmetric pictures.				
.8 Draw lines of symmetry in regular polygons or pictures.				

.9 Identify and model geometric figures that are congruent, or symmetrical.				
4:6 Measurement				
.1 Measure line segments to the nearest centimeter.				
.2 Convert between millimeters, centimeters and meters.				
.3 Measure line segments to the nearest 1/2 inch.				
.4 Convert between inches, feet, and yards.				
.5 Find the perimeter of regular and irregular shapes.				
.6 Approximate the area of an irregular polygon.				
.7 Find perimeter and area of a region represented by a scale drawing.				
.8 Find the area and perimeter of rectangles.				
.9 Write and solve word problems involving map scales, elapsed time, and temperature.				
.10 Write and solve word problems involving metric and standard units of volume or capacity, weight and length.				
.11 Find elapsed time to the minute.				
4:7 Statistics				
.1 Find the mean, median, mode and range of a set of data.				
.2 Collect and organize data; use it to construct a chart, table, or graph.				
.3 Describe and explain data from tables, charts and graphs; and use the data to make predictions.				
4:8 Probability				
.1 Correctly use "chance", "likely", "unlikely", "certain", and "luck".				
.2 Present probability data using fractions.				
.3 Design a spinner using given criteria, make predictions, record the results, and compare the predicted outcome with the actual results.				
.4 Create and solve probability problems about chance occurrences that are expressed as simple fractions.				
4:9 Patterns				
.1 Find a pattern, explain its rule and extend the pattern.				
.2 Explain the patterns in place value charts, fact tables and other data displays.				
4:10 Algebra				
.1 Use manipulatives to solve problems containing an unknown.				
.2 Write number sentences using letters or shapes to represent variables.				
.3 Solve number sentences with missing addends and factors.				
.4 Find missing factors to product of 100.				
.5 Write and solve word problems that use equations containing a variable.				
4:11 Problem Solving				
.1 Solve problems by selecting and using a variety of strategies.				
4:12 Communication				
.1 Write and verbalize explanations of strategies used to solve problems.				
4:13 Reasoning				
.1 Justify the reasonableness of answers, solution processes and mathematical strategies.				
4:14 Connections				
.1 Observe and describe the relationship between mathematical concepts.				