

Concept	Grade K	Grade 1	Grade 2	Grade 3	Grade 4
Read / Write numbers (numerals)	1 – 25	1 -100; compare and order	Up to 1,000; compare and order	Up to 10,000; compare and order	Up to 100,000; compare and order
Read / Write numbers (words)	Matches quantities to 25 with numerals and words	1 - 10	Up to 100	Up to 1,000	Up to 10,000
Place Value		Up to hundreds	Up to thousands	Up to ten thousands	Up to hundred thousands
Measurement	Recognize tools for weight and length; make direct and indirect comparisons between objects	Standard vs. non-standard; estimate and measure using non-standard units; use comparative words	Estimate, measure and calculate length to the nearest unit; use a ruler	Nearest $\frac{1}{2}$ "; know common equivalencies for length; use fractions with liquid measures; weight to the nearest ounce or gram	Nearest $\frac{1}{4}$ "; length, area, perimeter, capacity, and weight
Time	Nearest hour	Nearest $\frac{1}{2}$ and $\frac{1}{4}$ hour	Nearest 5 minutes	Nearest minute	Elapsed time
Money	Coin recognition	Value of coins up to 50 cents	Value of coins up to \$1	Add, subtract, recognize value to \$5	Add and subtract with decimals and regrouping
Fractions	Pictorial recognition to $\frac{1}{2}$ and 1 whole	Pictorial recognition to $\frac{1}{4}$	$<$, $>$, or $= \frac{1}{2}$ Read and write $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{3}$	Fractional equivalent of parts of a whole and of a set; parts of a fraction	Equivalency, common denominators, improper/mixed, add and subtract
Addition and Subtraction	Sums to 10	2 digit without regrouping	2 and 3 digit with regrouping	3 and 4 digit with regrouping	100,000.00 with regrouping
Multiplication and Division	Skip count by 2's; patterns	Skip count by 2, 5, and 10	Count by 1, 2, 5, 10, 100 up to 1,000; Recognize as repeated addition	Facts 1- 10	3 digit by 1 digit multiplication and division
Algebra	Patterns with shapes; sort, order, and classify objects	Number patterns on number line and hundred chart; recognize addition and subtraction as inverse operations; fact families; unknowns	Expand knowledge of number patterns, fact families, unknowns; commutative and associative properties;	Unknowns with variables; commutative, associative, and distributive properties; create and represent patterns in various ways; express mathematical relationships using number sentences and equations	Represent and analyze patterns using words, function tables and graphs; letters and symbols as variables; simple equations using whole numbers, fractions, and decimals
Shapes and geometry	Recognize basic plane figures up to hexagon; basic 3D	Recognize, classify, and transform 2 and 3D figures; compose and decompose polygons	Transformations; compose and decompose polygons to create other polygons	Parallel, perpendicular, and intersecting lines; types of lines; properties of figures; congruence and symmetry	Properties of lines, segments, polygons and circles; classify angles and triangles; area and perimeter
Data and probability	Collect and count data; sort and re-sort objects based on different attributes	Various representations to display and compare data; horizontal and vertical representations of data	Likely and unlikely; tables, bar graphs, and picture graphs; predict outcomes	Organize, display, and analyze data; frequency tables; bar graphs, pictographs, and line plots	Median, range and mode; stem-and-leaf plots; use central tendency to compare sets of related data; appropriate scale; collect, record, arrange, present, and interpret data in various forms