

4th Grade Math Topics – What Do They Mean?

Topic	What does that mean? Students will:
Place Value Through the Thousands	<ul style="list-style-type: none"> • Generalize their understanding of place value to one million, understanding the relative sizes of numbers in each place • Round whole numbers to any place
Fluently Add & Subtract to One Million	<ul style="list-style-type: none"> • Fluently add and subtract whole numbers using the standard algorithm and explain the reasonableness of their answer
Problem Solving using Multiplication	<ul style="list-style-type: none"> • Interpret and represent multiplication equations as comparisons • Multiply to solve word problems using equations and drawings
Multiply by 1-Digit & 2-Digit Numbers	<ul style="list-style-type: none"> • Explain and illustrate solutions using strategies based on place value, properties of operations, equations, and/or models • Multiply up to 4-digit numbers by a one-digit whole number & multiply two 2-digit whole numbers
Factors & Multiples	<ul style="list-style-type: none"> • Decide whether a whole number is prime or composite (0-100) • List the multiples and factors of a given number (1-100)
Problem Solving using Division	<ul style="list-style-type: none"> • Students divide to solve word problems involving comparison using equations and drawings • Students solve word problems with remainders and use mental math & estimation to explain their answers
Divide by 1-Digit Numbers	<ul style="list-style-type: none"> • Find whole number quotients and remainders (up to 4-digit by 1-digit)
Using Equations to Solve Problems	<ul style="list-style-type: none"> • Solve multi-step word problems with whole numbers & having whole number answers using addition, subtraction, multiplication & division • Division with remainders – represent these problems using equations
Line Symmetry	<ul style="list-style-type: none"> • Draw all possible lines of symmetry in 2D figures • Draw points, lines, line segments, rays, angles, perpendicular & parallel lines
Polygons	<ul style="list-style-type: none"> • Classify shapes based on parallel or perpendicular lines, angles, and identify right triangles
Angles	<ul style="list-style-type: none"> • Solve addition and subtraction problems to find unknown angles and determine the measure of an angle in degrees using a protractor.
Relative Sizes of Measurement Units	<ul style="list-style-type: none"> • Use the four operations to solve word problems involving distance, time, & volume • Use benchmarks to understand relative sizes (a car is approximately one ton)
Represent & Interpret Data	<ul style="list-style-type: none"> • Solve addition and subtraction of fraction problems using a line plot & make line plots in fractions ($\frac{1}{2}$, $\frac{1}{4}$ & $\frac{1}{8}$)
Perimeter	<ul style="list-style-type: none"> • Use a formula to find the perimeter of a rectangle – apply in the real world and in word problems
Area	<p>Use a formula to find the area of a rectangle – apply in the real world and in word problems</p>
Fraction Equivalence & Comparison	<ul style="list-style-type: none"> • Compare two fractions with different numerators & denominators using $<$, $>$, $=$, \neq
Adding & Subtracting Fractions with Like Denominators	<ul style="list-style-type: none"> • Add and subtract mixed numbers with like denominators and solve word problems involving fractions
Multiply Fractions by Whole Numbers	<ul style="list-style-type: none"> • Solve word problems by multiplying a fraction by a whole number
Relate Fractions, Decimals & Money	<ul style="list-style-type: none"> • Use $+$, $-$, \times, \div to solve word problems involving money, including problems that involve simple fractions or decimals