



Boys entering Fifth Grade: Mathematics

Number Theory	Find multiples of whole numbers less than 10; identify prime and composite numbers; find whole-number factors of numbers.
Comparing and ordering numbers	Compare and order whole numbers up to 1,000,000,000 and decimals through thousandths; compare and order integers between -100 and 0; compare and order fractions.
Place Value	Read and write whole numbers up to 1,000,000,000 and decimals through thousandths; identify places in such numbers and the values of the digits in those places
Addition and Subtraction Facts	Demonstrate automaticity with addition and subtraction fact extensions
Multiplication and division facts	Demonstrate automaticity with multiplication facts through 10×10 and proficiency with related division facts; use basic facts to compute fact extensions such as 30×60
Addition and subtraction procedures	Solve problems involving the addition and subtraction of whole numbers and decimals through hundredths
Multiplication and division procedures	Solve problems involving the multiplication of multi-digit whole numbers by 2-digit whole numbers and the division of multi-digit whole numbers by 1-digit whole numbers
Computation and Estimation	Make reasonable estimates for whole number and decimal addition and subtraction problems and whole number multiplication and division problems
Fractions	Create equivalent fractions; add and subtract fractions with common denominators
Decimals	Understand relationships between fractions and decimals; recognize common decimal/fraction equivalents (0.5, 0.25, 0.6, 0.75); add and subtract decimals numbers; multiply two digit decimal numbers
Length, Weight and Angles	Measure length to the nearest $\frac{1}{4}$ inch and $\frac{1}{2}$ centimeter; use tools to measure and draw angles (Protractor)
Plane and solid figures	Describe, compare, and classify plane and solid figures, including polygons, circles, spheres, cylinders, rectangular prisms, cones, cubes, and pyramids, using appropriate geometric terms including vertex, base, face, edge, and congruent.
Algebraic notation and	Use conventional notation to write expressions and number

solving number sentences	sentences using the four basic arithmetic operations; determine whether number sentences are true or false; solve open sentences and explain the solutions
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