

Grade 4

OBJECTIVE	SUGGESTED MANIPULATIVES
Place Value	Base 10 blocks, place value chart, number line
Rounding Whole Numbers	Base 10 blocks, place value chart, number line
Comparing Whole Numbers	Base 10 blocks, linking cubes, number line
Addition and Subtraction Algorithm	Base 10 blocks, number line, graph paper, dry-erase materials
Multi-Step Addition and Subtraction Problems	Ruler, string, beakers, dry-erase materials
Multiplicative Comparison	Square tiles, graph paper, dry-erase materials
Factors and Multiples	Square tiles, graph paper, dry-erase materials
Patterns	Square tiles, graph paper, number lines, dry-erase materials
Multi-Step Problems Using 4 Operations	<u>How Many Legs game mats</u> (for Leg Drape game), graph paper, square tiles, dry-erase materials
Applying Area and Perimeter	Graph paper, square tiles, multiplication chart, dry-erase materials
Mixed Numbers	Fraction tiles, fraction circles, dry-erase materials, number lines
Fraction Equivalence	Fraction tiles, fraction circles, dry-erase materials, number lines
Addition and Subtraction with Fractions	<u>Pie Monster game mats</u> , fraction tiles, fraction circles, dry-erase materials, number lines
Fraction Multiplication	Fraction tiles, fraction circles, dry-erase materials, number lines
Decimal Fractions	Blank 100 grid, number lines, base 10 blocks, decimal manipulatives
Comparing Decimals	Number lines, base 10 blocks or decimal manipulatives
Lines and Angles	Dot paper, graph paper, protractors, scratch paper
Lines of Symmetry	Dot paper, graph paper, scratch paper, ruler or straight edge

Grade 4 objectives continued on the next page

Grade 4 continued

OBJECTIVE	SUGGESTED MANIPULATIVES
Classifying Shapes	Foam shapes, scratch paper, graph paper
Measurement and Conversions	Liquid measuring tools, pan balance, ruler, dry-erase materials
Multi-Digit Multiplication	Graph paper, dry erase materials, square tiles, base 10 blocks, multiplication chart
Multi-Digit Division	Linking cubes, counting cubes, base 10 blocks, dry-erase materials, multiplication chart
Line Plots and Range	Number lines, dry-erase materials, linking cubes