

Math 4 Textbook

Unit 1

Understanding numbers through thousands; multiplication
 Fractions; facts about fractions
 Solving word problems; finding half of a number mentally
 Reading and writing decimals; ordering decimals with tenths
 Decimal points; subtraction word problems
 Rounding measurements; changing units of measure
 Borrowing; finding the missing part in word problems
 Metric units of length; solving two-step word problems
 Multiplying and carrying; factors and multiples; when to add, when to multiply
 Rounding to the nearest ten or hundred; finding change
 Adding and subtracting mentally; doubling numbers mentally
 Naming lines; mental math trails

Unit 2

Naming line segments and rays; division is the opposite of multiplication
 Large numbers mentally; more about division
 Measuring circles
 Parallel, intersecting, and perpendicular
 Adding and subtracting fractions; division steps
 Finding a fraction of a number; factors
 Finding digit sums; multiplying a three-digit number and carrying
 Place value through millions
 Division with a remainder
 Meaning of *centi* and *milli*; carrying mentally
 Checking division; multiplying money
 Proper and improper fractions
 Counting by 12s to 144

Unit 3

Digit sums shortcut; changing from smaller to larger units of measure
 Two-place decimals; rounding and estimating to the nearest dollar
 Mixed numbers and improper fractions
 Multiplying and dividing by 10, 100, and 1,000
 Multiplying by two-digit numbers
 Finding factors using divisibility rules for 2, 5, and 10
 Reading and writing numbers through millions; estimating sums and differences
 Naming triangles
 Five steps in long division
 Multiplying two-digit numbers by tens
 Checking multiplication; common solids
 Checking addition and subtraction; gram, kilogram, and metric ton
 One fourth inch

Unit 4

Changing mixed numbers to improper fractions
 Finding factors using divisibility rules for 3 and 9
 Perimeter and area; time patterns
 Area of squares and rectangles; looking for addends that equal 10
 Using digit sums to check multiplication
 Multiplying decimals by 10 or 100
 Congruent and similar figures; counting by 11s to 132
 Reading dials
 Three-digit dividends, two-digit quotients
 Equal decimals
 Writing remainders as fractions
 Finding factors using multiples of 4, 6, 7, and 8

Unit 5

Ordering decimals with hundredths; common factors
 Multiplying three factors
 Volume
 Changing improper fractions to whole or mixed numbers
 Reducing fractions
 Making equal fractions
 Borrowing mentally
 Rounding in the middle of a number
 Measuring volume
 Making equal fractions with a given denominator
 Types of graphs
 Pictographs that show halves
 Making a pictograph

Unit 6

Keys to finding common factors
 Introducing circumference of a circle
 Ratios compare measurements
 Finding circumference using diameter
 Reducing fractions and improper fractions to simplest form
 Ratios compare amounts
 Using digit sums to check addition; multiplication facts of 12
 Counting across zero
 Multiplying three-digit numbers by two-digit numbers
 Area of triangles
 Rounding numbers with nine
 One minus a fraction
 Special temperatures; counting by sixteens

Unit 7

Counting zeros to multiply
 Rounding tenths to whole numbers
 Types of angles
 Making a bar graph
 Expressions and variables; analogies
 Estimating multiplication; multiplication facts of 11
 Adding or subtracting mixed numbers; if/then statements
 Rounding numbers with two nines
 Multiplying three-digit numbers by three-digit numbers
 Comparing positive and negative numbers
 Simplifying expressions
 Simplifying mixed numbers with improper fractions
 Writing dates with numbers; what would equal 100?

Unit 8

Simplifying expressions in the right order
 Adding and subtracting mixed numbers and whole numbers
 Lowest common multiple
 Finding the vertex and naming angles
 Simplifying expressions with parentheses
 Adding and subtracting time
 A quicker way to find lcm
 Finding numbers that equal 100
 Three-digit quotients
 Borrowing to subtract fractions
 Using a protractor
 Using digit sums to check subtraction
 Expanding numbers vertically; subtracting from 100

Unit 9

Metric units for liquids; drawing angles
 Division with 0 in the quotient
 Adding time with carrying
 Making a line graph
 Squaring a number
 Subtracting time with borrowing
 Finding averages
 Measuring to the eighth-inch
 Congruent angles
 Finding square roots; dividing money
 Sets
 Metric units of length with decimals
 Drawing congruent angles

Unit 10

Metric units for liquids with decimals
 Rounding to the nearest fourth-inch
 Sets with many members
 Prime and composite numbers
 Keys to finding prime numbers
 One-half and tenths
 One-half and hundredths
 The square root symbol
 Dry food measures
 Symmetry and asymmetry; symmetrical patterns
 Completing symmetrical shapes
 Finding places on a grid
 Scale drawing on a grid