



Destination Math[®]

Mastering Skills & Concepts IV: Basic Mathematics **grades 6-8**

Focusing on the numbers and operations typically included in the middle school math curriculum, this course presents each topic within a motivational context that demonstrates how mathematical issues arise out of real-life situations. Within these contexts, students investigate the properties of fractions, decimals, percents, and integers, and explore the rules that govern their operations.

Scope and Sequence

1 FRACTIONS

- 1.1 Essentials of Fractions
 - Recognizing a Fraction
 - Exploring Proper and Improper Fractions
 - Working with Mixed Numbers
- 1.2 Equivalent Fractions
 - Identifying the Factors of a Number
 - Expressing Fractions in Lowest Terms
 - Writing and Comparing Equivalent Fractions
- 1.3 Multiplying Fractions
 - Finding Products of Fractions, Whole Numbers, and Mixed Numbers
 - Using the GCF in Finding Products
 - Representing Multiplication
- 1.4 Dividing Fractions
 - Estimating Quotients of Fractions
 - Using Multiplicative Inverses
 - Solving Missing Value Problems when Dividing Fractions
- 1.5 Adding Fractions
 - Adding with Like Denominators
 - Adding with Unlike Denominators
 - Solving Missing Value Problems when Adding Fractions
- 1.6 Subtracting Fractions
 - Subtracting with Like Denominators
 - Subtracting with Unlike Denominators
 - Solving Missing Value Problems when Subtracting Fractions

2 DECIMALS

- 2.1 Essentials of Decimals
 - Investigating Decimal Place Values
 - Rounding Decimals
 - Exploring Repeating and Terminating Decimals
- 2.2 Adding and Subtracting Decimals
 - Using Place Value Grids
 - Regrouping with Whole Numbers
 - Regrouping to Hundredths
- 2.3 Multiplying Decimals
 - Multiplying Decimals by Powers of 10
 - Calculating Products
 - Finding the Volume of a Prism
- 2.4 Dividing Decimals
 - Dividing Decimals by Whole Numbers
 - Estimating and Finding Quotients
 - Dividing by Powers of 10

3 PERCENTS

- 3.1 Essentials of Percents
 - Investigating the Meaning of Percent
 - Expressing Percents as Proper Fractions
 - Expressing Percents Greater than 100% as Improper Fractions
- 3.2 Finding Percents of Quantities
 - Finding Percents of a Whole
 - Expressing Ratios as Percents
 - Calculating the Whole from a Part and a Percent
- 3.3 Increasing and Decreasing Percents
 - Calculating Percent Increases
 - Calculating Percent Decreases
 - Calculating Simple Interest

4 INTEGERS AND ORDER OF OPERATIONS

- 4.1 Adding and Subtracting Signed Numbers
 - Exploring the Number Line and Absolute Value
 - Adding with Absolute Value
 - Subtracting with Absolute Value
- 4.2 Multiplying and Dividing Signed Numbers
 - Finding Products of Signed Numbers
 - Representing the Multiplication of Signed Numbers
 - Finding Quotients Using Reciprocals
- 4.3 Order of Operations
 - Simplifying Expressions
 - Introducing the Distributive Property
 - Using Grouping Symbols