

Math Content: Grade 3

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Lesson 1: Learning Numeration Part I

- Unit 1.1 Numbers to Hundreds
- Unit 1.2 Numbers to Thousands
- Unit 1.3 Investigating Larger Numbers
- Unit 1.4 Odd and Even Numbers
- Unit 1.5 Different Ways to Name Numbers
- Unit 1.6 Number Comparison
- Unit 1.7 Math Challenges

Lesson 2: Learning Numeration Part II

- Unit 2.1 Comparing Quantities in Word Problems
- Unit 2.2 Number Order
- Unit 2.3 Introducing Decimal for Money
- Unit 2.4 Learning What Changes to Expect
- Unit 2.5 Skip Counting by 10,20, 50, and 100 in Ascending and Descending Order
- Unit 2.6 Skip Counting Puzzles
- Unit 2.7 Making an Organized List
- Unit 2.8 Math Challenges

Lesson 3: Addition of Whole Numbers Part I

- Unit 3.1 Addition of Whole Numbers
- Unit 3.2 Exploring Addition on a Hundred Chart
- Unit 3.3 Addition Using Mental Math
- Unit 3.4 How to Round
- Unit 3.5 How to Estimate Sums
- Unit 3.6 Exploring Mixed Problem Solving
- Unit 3.7 Adding Three 2-Digit Numbers
- Unit 3.8 Math Challenges

Lesson 4: Addition of Whole Numbers Part II

- Unit 4.1 Adding Whole Numbers
- Unit 4.2 How to Add 3-Digit Numbers
- Unit 4.3 Exploring Addition of 3 or More Numbers
- Unit 4.4 Addition Pattern with Place Values

- Unit 4.5 Balance Addition Equations
- Unit 4.6 Drawing Pictures in Problem Solving
- Unit 4.7 Math Challenges

Review of Lesson 1, 2, 3, and 4

Lesson 5: Subtraction and Making Sense of Numbers

- Unit 5.1 Meaning of Subtraction
- Unit 5.2 Subtract Vertically or Horizontally
- Unit 5.3 How to Subtract Using a Hundred Chart
- Unit 5.4 Subtracting Using Mental Math
- Unit 5.5 How to Estimate Differences
- Unit 5.6 Write Subtraction Equations
- Unit 5.7 Compare Subtraction Equation
- Unit 5.8 Using Reasonableness in Problem Solving
- Unit 5.9 Math Challenges

Lesson 6: Solving Problems by Subtracting Whole Numbers

- Unit 6.1 Models to Subtract 2-Digit Numbers
- Unit 6.2 Two-Digit Number Subtractions
- Unit 6.3 Models to Subtract 3-Digit Numbers
- Unit 6.4 Three-Digit Number Subtractions
- Unit 6.5 Exploring Subtracting Across Zero
- Unit 6.6 Relation between Addition and Subtraction
- Unit 6.7 Write Subtraction Equations
- Unit 6.8 Pictures and Equations for Problem Solving
- Unit 6.9 Math Challenges

Lesson 7: Understanding Multiplication Facts and Meaning Part I

- Unit 7.1 Understanding the Concept of Multiplication as Repeated Addition
- Unit 7.2 Exploring Arrays and Multiplication
- Unit 7.3 Applying Multiplication When Comparison
- Unit 7.4 How to Write Multiplication Stories
- Unit 7.5 Explaining How to Solve a Problem
- Unit 7.6 Math Challenges

Lesson 8: Understanding Multiplication Facts and Meaning Part II

- Unit 8.1 Using 2 and 5 as factors
- Unit 8.2 Exploring 10 as a factor
- Unit 8.3 Working with 9 as a factor
- Unit 8.4 Multiplication with 0 and 1

Unit 8.5 Using Two-Questions to Solve Problems

Unit 8.6 Math Challenges

Review of Lesson 5, 6, 7, and 8

Lesson 9: Using Known Fact Strategies in Multiplication

Unit 9.1 Using 3 and 4 as Factors

Unit 9.2 Using 6 and 7 as Factors

Unit 9.3 Using 8 as a Factor

Unit 9.4 Using 11 and 12 as Factors

Unit 9.5 3-Factors Multiplication

Unit 9.6 Multiplication with Numbers Ending at Zero

Unit 9.7 Identifying Squares in Multiplication

Unit 9.8 Write and Compare Multiplication Facts

Unit 9.9 Math Challenges

Lesson 10: Understanding Meaning of Division

Unit 10.1 Introducing Division as Sharing

Unit 10.2 How to Understand Remainders

Unit 10.3 Introducing Division as Repeated Subtraction

Unit 10.4 How to Write Division Stories

Unit 10.5 Division by Finding Missing Number

Unit 10.6 Using Objects and Drawing Pictures in Problem Solving

Unit 10.7 Math Challenges

Lesson 11: Identifying Division Facts Part I

Unit 11.1 Exploring Relationships in Multiplication and Division

Unit 11.2 Computing Fact Families of 2, 3, 4, and 5

Unit 11.3 Computing Fact Families of 6 and 7

Unit 11.4 Computing Fact Families of 8 and 9

Unit 11.5 Math Challenges

Lesson 12: Identifying Division Facts Part II

Unit 12.1 Dividing the Numbers Ending at 0

Unit 12.2 Learning Division with 0 and with 1

Unit 12.3 Input and Output Tables

Unit 12.4 Identify the Larger and Smaller Quotients in Division Equations

Unit 12.5 Drawing Pictures and Writing Number Sentences to Solve Problems

Unit 12.6 Math Challenges

Review Section of Lesson 9, 10, 11, and 12

Lesson 13: Patterns and Relationships Exploration

- Unit 13.1 Exploring Repeating Patterns
- Unit 13.2 Applying Number Sentences
- Unit 13.3 Using Extending Tables
- Unit 13.4 Writing Rules for Situation in Identifying Patterns
- Unit 13.5 Converting Word Expressions in Patterns
- Unit 13.6 Finding Geometric Patterns
- Unit 13.7 Equality or Inequality in Patterns
- Unit 13.8 Acting Out and Using Reasoning in Problem Solving
- Unit 13.9 Math Challenges

Lesson 14: Geometry: Solids and Shapes Part I

- Unit 14.1 Identify Solids and Shapes
- Unit 14.2 Relating Solids and Shapes in Geometry
- Unit 14.3 Recognize, Count, and Compare Sides, Faces, and Vertices
- Unit 14.4 Lines, Line Segments, and Rays
- Unit 14.5 Angles and Their Types
- Unit 14.6 Polygons
- Unit 14.7 Triangles and Their Types
- Unit 14.8 Quadrilaterals
- Unit 14.9 Math challenges

Lesson 15: Geometry: Solids and Shapes Part II

- Unit 15.1 Circle: Identifying Center, the Radius, and the Diameter of Circle
- Unit 15.2 Flip and Slide Objects Horizontally and Vertically
- Unit 15.3 Turn/Rotation about 90° and 180°
- Unit 15.4 Making and Testing Generalizations in Problem Solving
- Unit 15.5 Using Motion and Congruent Figures
- Unit 15.6 Identifying Lines of Symmetry
- Unit 15.7 Drawing Shapes with Lines of Symmetry
- Unit 15.8 Using Objects in Problem Solving
- Unit 15.9 Math Challenges

Lesson 16: Fractions Part I

- Unit 16.1 Learning Fractions and Regions
- Unit 16.2 Divide Regions into Parts
- Unit 16.3 Exploring Fractions and Sets
- Unit 16.4 Identifying Benchmark Fractions
- Unit 16.5 Evaluate Equivalent Fractions
- Unit 16.6 Compare Fractions Using Models

Unit 16.7 Math Challenges
Review of Lesson 13, 14, 15, and 16

Lesson 17: Fractions Part II

Unit 17.1 Order Fractions
Unit 17.2 Compute Fraction Using Number Line
Unit 17.3 Apply Models for Fraction Addition
Unit 17.4 Apply Models for Fraction Subtraction
Unit 17.5 Find the Missing Numerator and Denominator
Unit 17.6 Reducing Fractions into Simplest Form
Unit 17.7 Making a Table and Looking for Patterns in Problem Solving
Unit 17.8 Math Challenges

Lesson 18: Concepts of Decimals and Money Part I

Unit 18.1 Learning about Fractions and Decimals
Unit 18.2 Compare Decimal Numbers
Unit 18.3 Order Numbers Involving Decimals
Unit 18.4 Addition and Subtraction of Decimals
Unit 18.5 Use of Money to Learn Decimals
Unit 18.6 Math Challenges

Lesson 19: Concepts of Decimals and Money Part II

Unit 19.1 Money: Addition and Subtraction
Unit 19.2 Price List and Money Needed to Purchase
Unit 19.3 Purchasing and Making Change
Unit 19.4 Drawing Pictures and Writing Number Sentences to Solve Problems
Unit 19.5 Using Missing or Extra Information in Problem Solving
Unit 19.6 Math Challenges

Lesson 20: Measurement: Customary Units Part I

Unit 20.1 Understanding Measurement
Unit 20.2 Measure Length Using Fractions of an Inch
Unit 20.3 Using Inches, Feet, Yards, and Miles
Unit 20.4 Convert Customary Units of Length
Unit 20.5 Units of Capacity
Unit 20.6 Math Challenges

Review of Lesson 17, 18, 19, and 20

Lesson 21: Measurement: Customary Units Part II

- Unit 21.1 Convert Customary Units of Capacity
- Unit 21.2 Units of Weight
- Unit 21.3 Convert Customary Units of Weight
- Unit 21.4 Using Reasoning to Solve Problems
- Unit 21.5 Math Challenges

Lesson 22: Measurement: Metric Units

- Unit 22.1 Measure Length, Centimeters, and Decimeters
- Unit 22.2 Using Meters and Kilometers
- Unit 22.3 Convert Metric Units of Length
- Unit 22.4 Metric Units of Capacity
- Unit 22.5 Convert Metric Units of Capacity
- Unit 22.6 Measuring of Metric Units of Mass
- Unit 22.7 Convert Metric Units of Mass
- Unit 22.8 Choose Appropriate Units of Measurements
- Unit 22.9 Making Tables and Looking for Patterns in Problem Solving
- Unit 22.10 Math Challenges

Lesson 23: Measurement: Area, Perimeter, and Volume

- Unit 23.1 Perimeter
- Unit 23.2 Finding Perimeter of Common Shapes
- Unit 23.3 Exploring Different Shapes with the Same Perimeter
- Unit 23.4 Area
- Unit 23.5 Estimating Area
- Unit 23.6 Volume
- Unit 23.7 Solving Simple Problems
- Unit 23.8 Math Challenges

Lesson 24: Measurement: Time and Temperature

- Unit 24.1 Reading Time in Half and Quarter Hours
- Unit 24.2 Reading Time in Minutes
- Unit 24.3 Understanding Unit of Time
- Unit 24.4 Computing Elapsed time
- Unit 24.5 Convert Times into Different Units
- Unit 24.6 Convert Hours to Day and Conversely
- Unit 24.7 Reading Time Schedule
- Unit 24.8 Temperature
- Unit 24.9 Read a Calendar
- Unit 24.10 Working Backwards in Problem Solving
- Unit 24.11 Math Challenges

Review of Lesson 21, 22, 23, and 24

Lesson 25: Multiplication: Larger Numbers

- Unit 25.1 Multiplication Using Mental Math
- Unit 25.2 Product Estimation
- Unit 25.3 Exploring Array and Multiplication
- Unit 25.4 Multiplication by Breaking Apart
- Unit 25.5 Exploring Expanded Algorithms
- Unit 25.6 Multiply 2-Digit Numbers and 3-Digit Numbers by 1-Digit Number
- Unit 25.7 Multiplication Patterns over Increasing Place Values
- Unit 25.8 Draw Pictures and Write Number Sentences to Solve Problems
- Unit 25.9 Math Challenges

Lesson 26: Division: Single-Digit Number

- Unit 26.1 Dividing Using Mental Math
- Unit 26.2 Estimate Quotients
- Unit 26.3 Exploration of Division and Connecting Models and Symbols
- Unit 26.4 2-Digit Number Division
- Unit 26.5 Division with remainders
- Unit 26.6 Rule of Divisibility for 2, 3, and 5
- Unit 26.7 Using Multi-Step Problems in Problem Solving
- Unit 26.8 Math Challenges

Lesson 27: Exploring Data, Graphs, and Probability

- Unit 27.1 How to Organize Data
- Unit 27.2 Exploring Mixed Problem Solving
- Unit 27.3 Reading and Drawing Pictographs
- Unit 27.4 Reading and Drawing Bar Graphs
- Unit 27.5 Using Ordered Pairs and Line Graphs
- Unit 27.6 Certain, Likely, Unlikely, and Impossible
- Unit 27.7 Predicting Outcomes from Experiments
- Unit 27.8 Applying Line Plots and Experiments
- Unit 27.9 Using Graphs and Tables to Draw Conclusions
- Unit 27.10 Math Challenges

Review of Lesson 1 to 14

Review of Lesson 15 to 27