

RIGHTSTART™ MATHEMATICS OBJECTIVES FOR LEVEL D

Numeration

- Rounds numbers to the nearest 10, 100, and 1000
- Reads, writes, and compares numbers to the millions

Addition

- Adds 2-digit numbers mentally
- Adds 4-digit numbers

Subtraction

- Understands subtraction as a missing addend
- Subtracts 2-digit numbers mentally
- Subtracts 4-digit numbers

Multiplication

- Understands 5×7 as 5 multiplied by 7
- Knows multiplication facts to 10×10
- Applies commutative, associative, and distribute properties
- Multiplies multiples of 10, e.g. 80×7
- Multiplies a 4-digit number by a 1-digit number

Division

- Understands division as the number of groups or size of a group
- Understands division as finding a missing factor
- Knows division facts

Problem Solving

- Solves two-step problems involving four operations
- Solves problems in more than one way
- Persists in solving problems
- Identifies and explains patterns

Time and Money

- Tells time to the minute
- Solves elapsed time problems
- Adds and subtracts with dollars and cents

Measurement

- Understands square units, cm^2 , sq ft, and sq miles
- Finds perimeter and area in customary and metric units
- Measures in grams, kilograms, and liters

Fractions

- Understands fraction a/b as a divided by b
- Understands a/b as $1/b$ multiplied by a
- Understands $n \frac{a}{b}$ as a whole number plus a fraction
- Compares and finds equivalences on the fraction chart

Data

- Gathers and interprets data with charts and graphs

Geometry

- Knows angles 30° , 45° , 60° , 90° , 180° , and 360°
- Categorizes shapes by attributes, e.g., square is a rectangle
- Partitions shapes into simple fractions
- Constructs equilateral triangle and other shapes with drawing tools

Quarter 1	Quarter 2	Quarter 3	Quarter 4

--	--	--	--

LEVEL D TABLE OF CONTENTS

Lesson 1	Review Entering Quantities on the Abacus
Lesson 2	Review Addition Strategies
Lesson 3	Review Hundreds with Place-Value Cards
Lesson 4	Review Thousands and Side 2 of the Abacus
Lesson 5	Review Trading on Side 2 of the Abacus
Lesson 6	Review Mental Adding
Lesson 7	Review Subtraction Strategies
Lesson 8	Review Subtracting on Side 2 of the Abacus
Lesson 9	Review Traditional Subtracting on the Abacus
Lesson 10	Review Arrays
Lesson 11	Review Multiplication in Arrays
Lesson 12	Chinese Checkerboard Problem
Lesson 13	Multiplying by Two
Lesson 14	More Multiplying by Two
Lesson 15	Multiples of Two and Four
Lesson 16	Multiples of One
Lesson 17	Multiples of Eight
Lesson 18	The Commutative Property
Lesson 19	Multiples of Ten and Nine
Lesson 20	Multiples of Five
Lesson 21	Multiples of Three
Lesson 22	Multiples of Six
Lesson 23	Multiples of Seven
Lesson 24	The Associative Property for Multiplication
Lesson 25	Shortcut Multiplying
Lesson 26	Review and Games 1
Lesson 27	Multiplication Problems
Lesson 28	The Multiplication Table
Lesson 29	Area on the Multiplication Table
Lesson 30	Evens and Odds on the Multiplication Table
Lesson 31	Comparing Addition and Multiplication Tables
Lesson 32	The Short Multiplication Table
Lesson 33	Using the Short Multiplication Table
Lesson 34	Finding Missing Factors
Lesson 35	Division Problems

LEVEL D TABLE OF CONTENTS

Lesson 36	Introducing Parentheses
Lesson 37	Assessment Review 1
Lesson 38	Review Games
Lesson 39	Assessment 1
Lesson 40	Multiplying on the Math Balance
Lesson 41	Distributive Property on the Math Balance
Lesson 42	Order of Operations with a Calculator
Lesson 43	Reviewing Place Value with a Calculator
Lesson 44	Estimating by Rounding to Tens
Lesson 45	More Rounding
Lesson 46	Story Problems with Rounding
Lesson 47	Review and Games 2
Lesson 48	Composing 6-Digit Numbers
Lesson 49	Composing Larger Numbers
Lesson 50	Comparing Larger Numbers
Lesson 51	Enrichment The Billions
Lesson 52	Introducing Remainders
Lesson 53	Remainders after Dividing by Nine
Lesson 54	Check Numbers
Lesson 55	Identifying Multiples
Lesson 56	Review and Games 3
Lesson 57	Enrichment Building Pascal's Triangle
Lesson 58	Enrichment Pascal's Triangle Patterns
Lesson 59	Checking Subtraction by Adding Up
Lesson 60	Checking Subtraction with Check Numbers
Lesson 61	Multiplying with Multiples of Tens
Lesson 62	More Multiplying with Multiples of Tens
Lesson 63	Multiplying Multi-Digit Numbers Horizontally
Lesson 64	Multi-Digit Multiplication
Lesson 65	Using Check Numbers with Multiplication
Lesson 66	Review and Games 4
Lesson 67	Unit Fractions
Lesson 68	Fractions as Division
Lesson 69	Non-Unit Fractions
Lesson 70	Fraction Pairs That Total One

LEVEL D TABLE OF CONTENTS

Lesson 71	The Ruler Chart
Lesson 72	Adding Halves and Fourths
Lesson 73	Quarters of an Hour
Lesson 74	Fractions of a Dollar
Lesson 75	Gallons and Quarts
Lesson 76	Enrichment Musical Notes
Lesson 77	Assessment Review 2
Lesson 78	Review Games
Lesson 79	Assessment 2
Lesson 80	Making One with Fractions
Lesson 81	Comparing Fractions
Lesson 82	Fraction Line
Lesson 83	Multiples Patterns
Lesson 84	More Multiples Patterns
Lesson 85	Growing Geometric Patterns
Lesson 86	Numeric Patterns
Lesson 87	Chinese Checkerboard Revisited
Lesson 88	Review and Games 5
Lesson 89	Months of the Year
Lesson 90	Calendar for One Year
Lesson 91	Calendars for Two Years
Lesson 92	Measuring and Graphing Lengths
Lesson 93	Scoring Corners™ with a Bar Graph
Lesson 94	Reading a Bar Graph
Lesson 95	Constructing a Bar Graph
Lesson 96	Review and Games 6
Lesson 97	Time to the Minute
Lesson 98	Adding Minutes
Lesson 99	Time Problems
Lesson 100	Finding Perimeter in Feet and Inches
Lesson 101	Square Miles
Lesson 102	Measuring Areas
Lesson 103	Finding Areas
Lesson 104	Area of Tangram Pieces
Lesson 105	Area and Perimeter Comparisons

LEVEL D TABLE OF CONTENTS

Lesson 106	Finding Perimeter and Area of Squares
Lesson 107	Enrichment Graphing Perimeter and Area
Lesson 108	Review and Games 7
Lesson 109	Finding Factors
Lesson 110	Area and Perimeter Problems
Lesson 111	Measuring in Grams
Lesson 112	Liters and Kilograms
Lesson 113	Measurement Problems
Lesson 114	Naming Angles
Lesson 115	Measuring Sides in Triangles
Lesson 116	Measuring Angles in Triangles
Lesson 117	Dollars and Cents
Lesson 118	More Dollars and Cents
Lesson 119	Money Problems
Lesson 120	Review and Games 8
Lesson 121	Review Drawing Horizontal Lines
Lesson 122	Review Drawing Lines with a 30-60 Triangle
Lesson 123	Drawing Shapes in a Hexagon
Lesson 124	Drawing 30° and 60° Lines in a Circle
Lesson 125	Drawing 45° Lines in a Square
Lesson 126	Drawing 45° Lines in a Circle
Lesson 127	Drawing Congruent Figures
Lesson 128	Completing the Whole
Lesson 129	Finding a Fraction of a Figure
Lesson 130	Organizing Quadrilaterals
Lesson 131	Drawing Symmetrical Figures
Lesson 132	Congruent Shapes
Lesson 133	Arithmetic Review
Lesson 134	Arithmetic Games
Lesson 135	Time, Money, and Problem Solving Review
Lesson 136	Time, Money, and Problem Solving Games
Lesson 137	Data, Fraction, and Geometry Review
Lesson 138	Fraction Games
Lesson 139	Final Assessment
Lesson 140	Geometry Panels