RIGHTSTART[™] MATHEMATICS OBJECTIVES FOR LEVEL E

Numeration

Understands and finds prime numbers

Factors numbers

Reads, writes, rounds, and compares numbers to the billions

Addition and Subtraction

Adds and subtracts multi-digit numbers in multiple ways

Multiplication and Division

Knows multiplication facts to 10×10

Knows division facts, including remainders

Applies commutative, associative, and distributive properties Multiplies multiples of 10, e.g. 80×7

Multiplies multi-digit numbers by a 2-digit number

Does short division to divide multi-digit number by a single digit

Problem Solving

Solves two-step problems involving four operations Writes equations to represent story problems

Solves division story problems with remainders

Solves elapsed time, distance, money, and capacity problems

Measurement

Understands square units: cm², dm², sq ft, and sq yd Finds perimeter and area in customary and metric units Converts measurements in same system (e.g., g to kg)

Fractions

Adds and subtracts simple fractions and mixed numbers Understands a/b as 1/b multiplied by aUnderstands $n\frac{a}{b}$ as a whole number plus a fraction

Compares and finds equivalences on the fraction chart Multiplies fractions times a whole number

Decimals and Percents

Understands decimals as fractions of tenths or hundredths Converts decimal fractions from tenths to hundredths and back Adds, subtracts, and compares decimals to two decimal places Understands and uses simple percents

Patterns

Recognizes and continues numeric and geometric patterns Uses algebraic thinking to write a pattern symbolically Solves simple equations

Data

Makes line plots and interprets data

Geometry

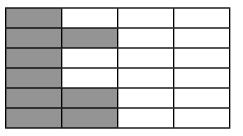
Locates lines of symmetry and draws reflections Knows angles 30°, 45°, 60°, 90°, 180°, and 360°

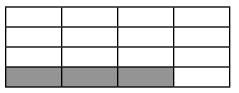
Classifies shapes by attributes

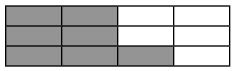
Constructs equilateral triangle and other shapes

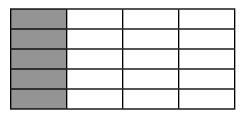
Quarter 1	Quarter 2	Quarter 3	Quarter 4

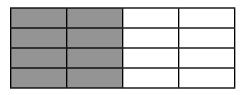


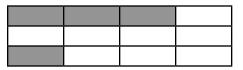














- Lesson 1 Review The AL Abacus and Addition Strategies
- Lesson 2 Review The Math Balance
- Lesson 3 Review Mental Adding
- Lesson 4 Review Subtraction Strategies
- Lesson 5 Review Trading on Side 2 of the Abacus
- Lesson 6 Review Multiplication Strategies
- Lesson 7 Review Division Strategies
- Lesson 8 Finding Remainders
- Lesson 9 Remainders after Dividing by Nine
- Lesson 10 Finding Check Numbers
- Lesson 11 Using Check Numbers to Check Adding
- Lesson 12 Adding on Side 2 of the Abacus
- Lesson 13 Adding Multi-Digit Numbers
- Lesson 14 On to the Millions
- Lesson 15 Writing and Reading Large Numbers
- Lesson 16 Rounding Large Numbers
- Lesson 17 Rounding Activities
- Lesson 18 Review and Games 1
- Lesson 19 Adding and Subtracting Shortcuts
- Lesson 20 Subtracting on Side 2 of the Abacus
- Lesson 21 Traditional Subtracting on the Abacus
- Lesson 22 Checking Subtraction by Adding Up
- Lesson 23 Magic Squares
- Lesson 24 Modifying Magic Squares
- Lesson 25 Larger Magic Squares
- Lesson 26 Terry's Way to Subtract
- Lesson 27 Terry's Other Way to Subtract
- Lesson 28 Review and Games 2
- Lesson 29 Addition and Subtraction Problems
- Lesson 30 Number Puzzles & Comparing Expressions
- Lesson 31 Partial Products on Side 2 of the Abacus
- Lesson 32 Traditional Multiplying on the Abacus
- Lesson 33 Traditional Multiplying on Paper
- Lesson 34 Multiplication Comparisons
- Lesson 35 Assessment Review 1

Lesson 36	Review Games
Lesson 37	Assessment 1
Lesson 38	Review Drawing Horizontal Lines
Lesson 39	Review Drawing Lines with the Triangles
Lesson 40	Review Basic Fractions
Lesson 41	Equivalent Fractions
Lesson 42	Halves of Halves
Lesson 43	Fractions Closest To
Lesson 44	Sketching Fractions
Lesson 45	Fractions Totaling One
Lesson 46	Whole Number Plus a Fraction
Lesson 47	A Fraction of Twelve
Lesson 48	Review and Games 3
Lesson 49	Adding Fractions Informally
Lesson 50	Adding and Subtracting Fractions Informally
Lesson 51	Comparing Fractions
Lesson 52	Comparing Harder Fractions
Lesson 53	Fraction of Sixteen
Lesson 54	Adding Eighths
Lesson 55	Reading Rulers to Eighths
Lesson 56	Adding Mixed Fractions With Eighths
Lesson 57	Review and Games 4
Lesson 58	Multiplying by Tens
Lesson 59	Multiplying by Two Digits
Lesson 60	Factor Pairs
Lesson 61	Prime Numbers
Lesson 62	Sieve of Eratosthenes
Lesson 63	Enrichment Prime Numbers to 1000
Lesson 64	Remainder Problems
Lesson 65	Working With Remainders
Lesson 66	Dividing 4-Digit Numbers on the Abacus
Lesson 67	More Dividing 4-Digit Numbers on the Abacu
Lesson 68	Short Division
Lesson 69	Multivides

Lesson 70 Assessment Review 2 the Abacus

Lesson 71	Review Games
Lesson 72	Assessment 2
Lesson 73	Working with Tenths
Lesson 74	Introducing Hundredths
Lesson 75	Working with Hundredths
Lesson 76	Decimal Fractions on the Vertical Abacus
Lesson 77	Introducing Decimal Points
Lesson 78	Using Decimal Points for Hundredths
Lesson 79	Decimal and Fraction Practice
Lesson 80	Hundredths of a Dollar
Lesson 81	Review and Games 5
Lesson 82	Order of Operations with a Calculator
Lesson 83	Dollars and Cents on a Calculator
Lesson 84	Decimals on a Number Line
Lesson 85	Measuring in Tenths of an Inch and a Mile
Lesson 86	Decimal Parts of a Meter
Lesson 87	Fuel Prices
Lesson 88	Review and Games 6
Lesson 89	Introduction to Percentages
Lesson 90	Percentage of a Rectangle
Lesson 91	Finding Percentages
Lesson 92	Percentages on a Calculator
Lesson 93	Percentages in Geography
Lesson 94	Percentage Problems
Lesson 95	More Percentage Problems
Lesson 96	Fraction Circles
Lesson 97	Percentage Circles
Lesson 98	Percentage and Fractions Totaling One
Lesson 99	Review and Games 7
Lesson 100	Measuring Angles
Lesson 101	Isosceles Triangles
Lesson 102	Classifying Triangles
Lesson 103	Classifying Polygons
Lesson 104	Classifying Angles
Lesson 105	Angles in a Circle

- Lesson 106 Angles on a Geoboard
- Lesson 107 Regular Polygons on a Geoboard
- Lesson 108 Review and Games 8
- Lesson 109 Square Units
- Lesson 110 Area Problems
- Lesson 111 Distance Problems
- Lesson 112 Capacity Problems
- Lesson 113 Weight Problems
- Lesson 114 Time Problems
- Lesson 115 Line Plots
- Lesson 116 Review and Games 9
- Lesson 117 Shapes in an Octagon
- Lesson 118 Lines of Symmetry
- Lesson 119 Drawing Reflections
- Lesson 120 Drawing More Reflections
- Lesson 121 Visualizing Cubes
- Lesson 122 Isometric Drawings
- Lesson 123 Views of an Object
- Lesson 124 Views of Pyramids and Cones
- Lesson 125 Name the Solids from Views
- Lesson 126 Drawing Circle Designs
- Lesson 127 Drawing Olympic Rings
- Lesson 128 Area on the Geoboard
- Lesson 129 Comparing Areas on the Geoboard
- Lesson 130 Triangle Areas on the Geoboard
- Lesson 131 How Many Squares on the Geoboard
- Lesson 132 Midpoints in Triangles
- Lesson 133 Midpoints in Quadrilaterals
- Lesson 134 Enrichment Mobius Strips
- Lesson 135 Whole Number Review
- Lesson 136 Whole Number Games
- Lesson 137 Fractions, Decimals, and Percents Review
- Lesson 138 Fractions and Percentage Games
- Lesson 139 Geometry and Measurement Review
- Lesson 140 Final Assessment