# **RIGHTSTART<sup>™</sup> MATHEMATICS OBJECTIVES FOR LEVEL B**

# Numeration

- Can recognize quantities 1 to 10 without counting Can enter and recognize quantities to 100 on the abacus Knows even numbers and odd numbers
- Can identify even/odd numbers to 120
- Can count by 2s, 5s, 10s

# **Place Value**

- Knows 37 as 3-ten 7
- Knows traditional names: e.g., 18 as eighteen as well as 1-ten 8
- Can trade 10 ones for 1 ten
- Can trade 10 tens for 1 hundred
- Can trade 10 hundreds for 1 thousand
- Can write and read 4-digit numbers

# Addition

- Understands addition as combining parts to form a whole
- Knows number facts to 18
- Can add 2-digit numbers mentally
- Can add 4-digit numbers

# Subtraction

Understands subtraction as missing addends Understands subtraction as partitioning Knows subtraction facts up to 10

### **Problem Solving**

- Can solve word problems
- Perseveres in solving problems

# Geometry

- Knows parallel and perpendicular lines Knows square is a special rectangle Knows lines of symmetry Composes shapes from existing shapes
- Knows names of special quadrilaterals

#### Measurement

Can measure to one half of a centimeter Can measure to one half of an inch Can measure around a shape

#### Fractions

- Can partition into halves and fourths
- Knows that one fourth is also called a quarter
- Knows unit fractions up to tenths

#### Time

- Knows days of the week and months of the year Can tell and write time in hours & half hours on analog & digital clocks
- Can tell time to five-minute intervals

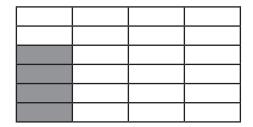
# Money

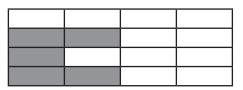
Knows name and value of penny, nickel, dime, and quarter Can determine the value of three coins

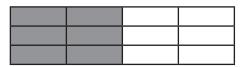
# Calculator

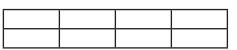
Can add and subtract whole numbers

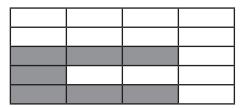
| Quarter 1 | Quarter 2 | Quarter 3 | Quarter 4 |
|-----------|-----------|-----------|-----------|
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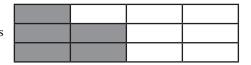














| Lesson 1  | Initial Assessment                              |
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| Lesson 2  | Review Subitizing 1 to 5                        |
| Lesson 3  | Review Subitizing 6 and 7 & the AL Abacus       |
| Lesson 4  | Review Subitizing Quantities 8 to 10            |
| Lesson 5  | Review Partitioning with Part-Whole Circle Sets |
| Lesson 6  | Review Partitioning Ten                         |
| Lesson 7  | Review Go to the Dump                           |
| Lesson 8  | Review Introducing the Math Balance             |
| Lesson 9  | Review Writing Addition Equations               |
| Lesson 10 | Review Tens on the Abacus                       |
| Lesson 11 | Review Tens and Ones                            |
| Lesson 12 | Adding One                                      |
| Lesson 13 | More Adding One                                 |
| Lesson 14 | Evens and Odds                                  |
| Lesson 15 | Even Numbers Plus 2                             |
| Lesson 16 | Odd Numbers Plus 2                              |
| Lesson 17 | The Doubles 1 to 5                              |
| Lesson 18 | The Doubles 6 to 10                             |
| Lesson 19 | Practicing the Doubles                          |
| Lesson 20 | The Commutative Property                        |
| Lesson 21 | Applying the Commutative Property               |
| Lesson 22 | Solving "Add To" Problems                       |
| Lesson 23 | Quadrilaterals                                  |
| Lesson 24 | Building Rectangles                             |
| Lesson 25 | Triangles with Right Angles                     |
| Lesson 26 | Adding Ten to a Number                          |
| Lesson 27 | Adding Ones and Adding Tens                     |
| Lesson 28 | Introducing Hundreds                            |
| Lesson 29 | Numbers 100 to 120                              |
| Lesson 30 | More Hundreds                                   |
| Lesson 31 | Enrichment Working with 100s and 1000s          |
| Lesson 32 | Two-Fives Strategy                              |
| Lesson 33 | More Two-Fives Strategy                         |
| Lesson 34 | Adding Five to a Number                         |
| Lesson 35 | Partitioning 5, 10, and 15                      |
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| Lesson 36 | Corners <sup>™</sup> Exercise without Scoring |
|-----------|---|
| Lesson 37 | Corners <sup>™</sup> Exercise with Scoring    |
| Lesson 38 | Basic Corners <sup>™</sup> Game               |
| Lesson 39 | Solving "Combine" Problems                    |
| Lesson 40 | Sums Equal to 11                              |
| Lesson 41 | Review  |
| Lesson 42 | Assessment 1                                  |
| Lesson 43 | Making Rectangles with Tangrams               |
| Lesson 44 | Continuing Patterns                           |
| Lesson 45 | Continuing Patterns with Geoboards            |
| Lesson 46 | Designs with Diagonals                        |
| Lesson 47 | The Greater Than Symbol                       |
| Lesson 48 | Adding 9 to a Number                          |
| Lesson 49 | Adding 8 to a Number                          |
| Lesson 50 | Two-Fives Strategy Practice                   |
| Lesson 51 | Adding 8s and 9s Practice                     |
| Lesson 52 | Thousands                                     |
| Lesson 53 | Base-Ten Picture Cards                        |
| Lesson 54 | Trading with Base-10 Cards                    |
| Lesson 55 | Adding with Base-10 Cards                     |
| Lesson 56 | More Adding with Base-10 Cards                |
| Lesson 57 | Enrichment Cotter Tens Fractal—Prep           |
| Lesson 58 | Enrichment Cotter Tens Fractal                |
| Lesson 59 | Adding Even Numbers Practice                  |
| Lesson 60 | Adding up to 10 and up to 15                  |
| Lesson 61 | Adding Several Numbers                        |
| Lesson 62 | Solving Problems with Three Addends           |
| Lesson 63 | Introducing Side 2 of the Abacus              |
| Lesson 64 | Bead Trading                                  |
| Lesson 65 | Adding 2-Digit Numbers and Tens               |
| Lesson 66 | Corners <sup>™</sup> Game                     |
| Lesson 67 | Mentally Adding 2-Digit Numbers               |
| Lesson 68 | Long Chain Solitaire                          |
| Lesson 69 | Addition Bingo Game                           |
| Lesson 70 | Days in a Year Problem                        |
|           |   |

| Lesson 71  | Adding 1, 10, and 100                     |
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| Lesson 72  | Adding 4-Digit Numbers                    |
| Lesson 73  | Continuing the Pattern                    |
| Lesson 74  | Review                                    |
| Lesson 75  | Review Games                              |
| Lesson 76  | Assessment 2                              |
| Lesson 77  | Hours on a Clock                          |
| Lesson 78  | Hours and Half-Hours                      |
| Lesson 79  | Minutes on the Clock                      |
| Lesson 80  | More Minutes on the Clock                 |
| Lesson 81  | Hours and Minutes                         |
| Lesson 82  | Adding 4-Digit Numbers on Paper           |
| Lesson 83  | Enrichment Adding Very Large Numbers      |
| Lesson 84  | Solving "Take From" Problems              |
| Lesson 85  | Ten Minus a Number                        |
| Lesson 86  | Subtraction as the Missing Addend         |
| Lesson 87  | Subtracting by Going Back                 |
| Lesson 88  | Subtracting Consecutive Numbers           |
| Lesson 89  | Subtracting from 9 and 11                 |
| Lesson 90  | Subtracting with Doubles and Near Doubles |
| Lesson 91  | Subtracting by Taking All from Ten        |
| Lesson 92  | Subtracting by Taking Part from Ten       |
| Lesson 93  | Finding the Difference                    |
| Lesson 94  | Solving Compare Problems                  |
| Lesson 95  | Addition and Subtraction Equations        |
| Lesson 96  | Continuing Patterns in the Hundreds       |
| Lesson 97  | Higher Even and Odd Numbers               |
| Lesson 98  | Pages in Books and Reading Years          |
| Lesson 99  | Greater Than or Less Than Symbols         |
| Lesson 100 | Introducing Area                          |
| Lesson 101 | Halves and Fourths                        |
| Lesson 102 | Fourths and Quarters                      |
| Lesson 103 | Finding Quarter Parts                     |
| Lesson 104 | Measuring with Centimeters                |
| Lesson 105 | Graphing                                  |
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| Lesson 106 | Measuring with Inches                             |
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| Lesson 107 | Paper Measuring Problems                          |
| Lesson 108 | Making Rectangles with Tiles                      |
| Lesson 109 | Geometry Solids                                   |
| Lesson 110 | Building with Cubes                               |
| Lesson 111 | Mentally Adding with Sums over 100                |
| Lesson 112 | Pennies, Nickels, and Dimes                       |
| Lesson 113 | Coin Problems                                     |
| Lesson 114 | Choosing Coins                                    |
| Lesson 115 | Counting Money with Quarters                      |
| Lesson 116 | Using the Fewest Coins                            |
| Lesson 117 | Making Change                                     |
| Lesson 118 | Adding with a Calculator                          |
| Lesson 119 | Introducing Multiplication as Arrays              |
| Lesson 120 | Multiplication as Repeated Addition               |
| Lesson 121 | More Calculator Activities                        |
| Lesson 122 | Introducing Division                              |
| Lesson 123 | Beginning Fractions                               |
| Lesson 124 | Unit Fractions                                    |
| Lesson 125 | Fractions of Twelve and Eight                     |
| Lesson 126 | Comparing Fractions by Weighing                   |
| Lesson 127 | Lines of Symmetry                                 |
| Lesson 128 | Finding Symmetry                                  |
| Lesson 129 | Tangram and Geoboard Figures                      |
| Lesson 130 | Enrichment Introducing Angles                     |
| Lesson 131 | Number and Operations in Base-10 Review           |
| Lesson 132 | Number and Operations in Base-10 Games            |
| Lesson 133 | Number and Operations in Base-10 Assessment       |
| Lesson 134 | <b>Operations &amp; Algebraic Thinking Review</b> |
| Lesson 135 | Operations & Algebraic Thinking Games             |
| Lesson 136 | Operations & Algebraic Thinking Assessment        |
| Lesson 137 | Measurement and Data Review and Games             |
| Lesson 138 | Measurement and Data Assessment                   |
| Lesson 139 | Geometry Review and Games                         |
| Lesson 140 | Geometry Assessment                               |
|            |   |