

C O N T E N T S

	Letter from Author Stephen Hake	xi
	Preface	xiii
	List of Materials	xxi
LESSON 1	Review of Addition • Addition Stories • Missing Addends, Part 1	1
LESSON 2	Missing Addends, Part 2	6
LESSON 3	Sequences • Digits	9
LESSON 4	Place Value	13
LESSON 5	Ordinal Numbers • Months of the Year	17
LESSON 6	Review of Subtraction • Addition and Subtraction Fact Families	21
LESSON 7	Writing Numbers Through 999	24
LESSON 8	Adding Money	28
LESSON 9	Adding with Regrouping	31
LESSON 10	Even Numbers • Odd Numbers	35
INVESTIGATION	Number Lines	39
	1	
LESSON 11	Addition Stories with Missing Addends	45
LESSON 12	Missing Numbers in Subtraction	48
LESSON 13	Adding Three-Digit Numbers	52
LESSON 14	Subtracting Two-Digit and Three-Digit Numbers • Missing Two-Digit Addends	55
LESSON 15	Subtracting Two-Digit Numbers with Regrouping	60
LESSON 16	Expanded Form • More on Missing Numbers in Subtraction	64
LESSON 17	Adding Columns of Numbers with Regrouping	68
LESSON 18	Reading Scales	71
LESSON 19	Reading Time from a Clock	75
LESSON 20	Rounding Numbers to the Nearest Ten • Rounding Money to the Nearest Dollar	79

<i>INVESTIGATION</i>	Units of Length • Perimeter	83
2		
<i>LESSON 21</i>	Triangles, Rectangles, Squares, and Circles	87
<i>LESSON 22</i>	Naming Fractions • Adding Dollars and Cents	92
<i>LESSON 23</i>	Lines, Segments, Rays, and Angles	96
<i>LESSON 24</i>	More About Missing Numbers in Addition and Subtraction	102
<i>LESSON 25</i>	Subtraction Stories	106
<i>LESSON 26</i>	Drawing Pictures of Fractions	111
<i>LESSON 27</i>	Multiplication as Repeated Addition • Elapsed Time	115
<i>LESSON 28</i>	Multiplication Table	119
<i>LESSON 29</i>	Multiplication Facts (0's, 1's, 2's, 5's)	124
<i>LESSON 30</i>	Subtracting Three-Digit Numbers with Regrouping	127
<i>INVESTIGATION</i>	Multiplication Patterns • Area •	131
3	Squares and Square Roots	
<i>LESSON 31</i>	Word Problems About Comparing	136
<i>LESSON 32</i>	Multiplication Facts (9's)	141
<i>LESSON 33</i>	Writing Numbers Through Hundred Millions, Part 1	145
<i>LESSON 34</i>	Writing Numbers Through Hundred Millions, Part 2	151
<i>LESSON 35</i>	Naming Mixed Numbers • Two Forms of Money	156
<i>LESSON 36</i>	Fractions of a Dollar	161
<i>LESSON 37</i>	Reading Fractions and Mixed Numbers from a Number Line	165
<i>LESSON 38</i>	Multiplication Facts (Memory Group)	169
<i>LESSON 39</i>	Reading an Inch Scale to the Nearest Fourth	172
<i>LESSON 40</i>	Capacity	176
<i>INVESTIGATION</i>	Decimal Numbers	181
4		
<i>LESSON 41</i>	Subtracting Across Zero • Missing Factors	189
<i>LESSON 42</i>	Multiplying Multiples of 10 and 100 • Rounding Numbers to the Nearest Hundred	194

<i>LESSON 43</i>	Adding and Subtracting Decimal Numbers, Part 1	199
<i>LESSON 44</i>	Multiplying Two-Digit Numbers, Part 1	203
<i>LESSON 45</i>	Parentheses • Associative Property • Naming Lines and Segments	206
<i>LESSON 46</i>	Division	212
<i>LESSON 47</i>	Other Ways to Show Division	216
<i>LESSON 48</i>	Multiplying Two-Digit Numbers, Part 2	220
<i>LESSON 49</i>	Stories About Equal Groups, Part 1	224
<i>LESSON 50</i>	Adding and Subtracting Decimal Numbers, Part 2	228
<i>INVESTIGATION 5</i>	Percents	232
<i>LESSON 51</i>	Adding Numbers with More Than Three Digits • Checking One-Digit Division	236
<i>LESSON 52</i>	Subtracting Numbers with More Than Three Digits • Stories About Equal Groups, Part 2	240
<i>LESSON 53</i>	One-Digit Division with a Remainder	245
<i>LESSON 54</i>	The Calendar • Rounding Numbers to the Nearest Thousand	250
<i>LESSON 55</i>	Multiples • Factors	255
<i>LESSON 56</i>	Using Pictures to Compare Fractions	260
<i>LESSON 57</i>	Rate Word Problems	264
<i>LESSON 58</i>	Multiplying Three-Digit Numbers	268
<i>LESSON 59</i>	Estimating Arithmetic Answers	272
<i>LESSON 60</i>	Rate Problems with a Given Total	276
<i>INVESTIGATION 6</i>	Displaying Data Using Graphs	280
<i>LESSON 61</i>	Remaining Fraction • Two-Step Equations	286
<i>LESSON 62</i>	Multiplying Three or More Factors • Exponents	290
<i>LESSON 63</i>	Polygons	294
<i>LESSON 64</i>	Division with Two-Digit Answers, Part 1	298
<i>LESSON 65</i>	Divisor, Dividend, and Quotient • Division with Two-Digit Answers, Part 2	303
<i>LESSON 66</i>	Similar and Congruent Figures	309

<i>LESSON 67</i>	Multiplying by Multiples of 10	313
<i>LESSON 68</i>	Division with Two-Digit Answers and a Remainder	318
<i>LESSON 69</i>	Millimeters	322
<i>LESSON 70</i>	Stories About a Fraction of a Group	327
<i>INVESTIGATION 7</i>	Collecting Data with Surveys	331
<i>LESSON 71</i>	Division Answers Ending with Zero	334
<i>LESSON 72</i>	Finding Information to Solve Problems	338
<i>LESSON 73</i>	Geometric Transformations	342
<i>LESSON 74</i>	Fraction of a Set	347
<i>LESSON 75</i>	Measuring Turns	351
<i>LESSON 76</i>	Division with Three-Digit Answers • Dividing Money	355
<i>LESSON 77</i>	U.S. Customary Units of Weight • Metric Units of Mass	359
<i>LESSON 78</i>	Classifying Triangles	363
<i>LESSON 79</i>	Symmetry	367
<i>LESSON 80</i>	Division with Zeros in Three-Digit Answers	372
<i>INVESTIGATION 8</i>	Graphing Relationships	376
<i>LESSON 81</i>	Angle Measures	379
<i>LESSON 82</i>	Tessellations	384
<i>LESSON 83</i>	Sales Tax • Change Back	388
<i>LESSON 84</i>	Decimal Numbers to Thousandths	392
<i>LESSON 85</i>	Multiplying by 10, by 100, and by 1000	396
<i>LESSON 86</i>	Multiplying Round Numbers Mentally	400
<i>LESSON 87</i>	Multiplying Two Two-Digit Numbers, Part 1	404
<i>LESSON 88</i>	Remainders in Stories About Equal Groups	408
<i>LESSON 89</i>	Mixed Numbers and Improper Fractions	412
<i>LESSON 90</i>	Multiplying Two Two-Digit Numbers, Part 2	415
<i>INVESTIGATION 9</i>	Investigating Fractions with Manipulatives	419
<i>LESSON 91</i>	Decimal Place Value	424

<i>LESSON 92</i>	Classifying Quadrilaterals	429
<i>LESSON 93</i>	Estimating Multiplication and Division Answers	433
<i>LESSON 94</i>	Two-Step Word Problems	437
<i>LESSON 95</i>	Two-Step Problems About a Fraction of a Group	441
<i>LESSON 96</i>	Average	445
<i>LESSON 97</i>	Mean • Median • Range • Mode	449
<i>LESSON 98</i>	Geometric Solids	453
<i>LESSON 99</i>	Decimal Numbers and Money	458
<i>LESSON 100</i>	Constructing Geometric Models	462
<i>INVESTIGATION 10</i>	Probability	466
<i>LESSON 101</i>	Tables • Schedules	470
<i>LESSON 102</i>	Decimal Number Line: Tenths and Hundredths	474
<i>LESSON 103</i>	Fractions Equal to 1 • Fractions Equal to $\frac{1}{2}$	479
<i>LESSON 104</i>	Changing Improper Fractions to Whole or Mixed Numbers	484
<i>LESSON 105</i>	Dividing by 10	488
<i>LESSON 106</i>	Evaluating Expressions	492
<i>LESSON 107</i>	Adding and Subtracting Fractions with Common Denominators	495
<i>LESSON 108</i>	Formulas • Distributive Property	499
<i>LESSON 109</i>	Equivalent Fractions	504
<i>LESSON 110</i>	Dividing by Multiples of 10	509
<i>INVESTIGATION 11</i>	Volume	513
<i>LESSON 111</i>	Estimating Area	517
<i>LESSON 112</i>	Reducing Fractions	521
<i>LESSON 113</i>	Multiplying a Three-Digit Number by a Two-Digit Number	525
<i>LESSON 114</i>	Simplifying Fraction Answers	529
<i>LESSON 115</i>	Renaming Fractions	533
<i>LESSON 116</i>	Common Denominators	537
<i>LESSON 117</i>	Rounding Whole Numbers Through Hundred Millions	541

<i>LESSON 118</i>	Dividing by Two-Digit Numbers	545
<i>LESSON 119</i>	Adding and Subtracting Fractions with Different Denominators	549
<i>LESSON 120</i>	Adding and Subtracting Mixed Numbers with Different Denominators	552
<i>INVESTIGATION</i> 12	Solving Equations	556
<i>TOPIC A</i>	Using Money Manipulatives to Represent Decimal Place Value	561
<i>TOPIC B</i>	Roman Numerals Through 39	563
<i>TOPIC C</i>	Roman Numerals Through Thousands	565
<i>TOPIC D</i>	Base 5	566
	Supplemental Practice Problems for Selected Lessons	569
	Glossary	585
	Index	611