

Foreword	ix	Preparing a Lesson	xvi
Preface.....	xii	Software	xviii
Acknowledgments	xiii	Scope and Sequence	xx
Using the Teacher Edition	xiv		

Chapter One Addition and Subtraction of Whole Numbers and Decimals

Lesson	Page	Lesson	Page
1 Place Value	4	9 Explore Algebra: Inverse Operations.....	20
2 Notation Forms for Numbers.....	6	10 Compare and Order Decimals	22
3 Compare and Order Whole Numbers	8	11 Rounding Decimals	24
4 Rounding Whole Numbers	10	12 Add and Subtract Decimals.....	26
5 Number Sense and Patterns	12	13 Problem Solving.....	28
6 Properties of Addition.....	14	14 Roman Numerals/Study Guide	30
7 Add and Subtract Whole Numbers.....	16	15 Chapter One Check-Up.....	32
8 Problem Solving.....	18	Answer Key.....	34

Chapter Two Multiplication of Whole Numbers and Decimals

Lesson	Page	Lesson	Page
16 Properties of Multiplication	40	24 Multiples of Ten and Decimals.....	56
17 Multiples of Ten	42	25 Decimals in One Factor.....	58
18 One-Digit Multipliers.....	44	26 More Multiplication of Decimals	60
19 Prime Factorization.....	46	27 Explore Algebra: Writing Expressions	62
20 Greatest Common Factor	48	28 Problem Solving.....	64
21 Two- and Three-Digit Multipliers	50	29 Square Roots/Study Guide	66
22 Factors with Zero	52	30 Chapter Two Check-Up.....	68
23 Exponents	54	Answer Key.....	70

Chapter Three Division of Whole Numbers and Decimals

Lesson	Page	Lesson	Page
31 Meaning of Division	76	39 Dividing Decimals by Whole Numbers	92
32 One-Digit Divisors	78	40 Dividing Whole Numbers by Decimals	94
33 Dividing by Multiples of Ten	80	41 Dividing a Decimal by a Decimal.....	96
34 Two- and Three-Digit Divisors	82	42 More Decimal Division	98
35 Explore Algebra: Order of Operations	84	43 Problem Solving.....	100
36 Quotients with Zeros	86	44 Finding an Average/Study Guide	102
37 Interpreting a Remainder.....	88	45 Chapter Three Check-Up.....	104
38 Problem Solving.....	90	Answer Key.....	106

Chapter Four Geometric Properties

Lesson	Page	Lesson	Page
46 Geometric Terms	112	55 Circles	130
47 Line Relationships	114	56 Cylinders, Cones, and Spheres	132
48 Angles	116	57 Congruent Triangles	134
49 Bisecting Segments and Angles	118	58 Similar Triangles	136
50 Triangles	120	59 Transformations	138
51 Quadrilaterals.....	122	60 Coordinate Geometry/Study Guide.....	140
52 Exploring Polygons.....	124	61 Chapter Four Check-Up	142
53 Pyramids and Prisms.....	126	Answer Key.....	144
54 Problem Solving.....	128		

Chapter Five Fractions and Number Theory

Lesson	Page	Lesson	Page
62 Meaning and Equivalency of Fractions	152	69 Fractions and Decimals	166
63 Least Common Multiple	154	70 Terminating and Repeating Decimals	168
64 Simplify Fractions	156	71 Explore Algebra: Inverse Operations.	170
65 Improper Fractions and Mixed Numbers.	158	72 Abundant and Deficient Numbers/Study Guide .	172
66 Compare and Order Fractions	160	73 Chapter Five Check-Up.	174
67 Problem Solving.	162	Answer Key.	176
68 Decimals and Fractions	164		

Chapter Six Addition and Subtraction of Fractions

Lesson	Page	Lesson	Page
74 Using Fraction Models	182	79 Estimation with Fractions	192
75 Add and Subtract with Like Denominators	184	80 Problem Solving.	194
76 Add and Subtract with Unlike Denominators.	186	81 Logical Thinking/Study Guide	196
77 Add and Subtract Mixed Numbers.	188	82 Chapter Six Check-Up	198
78 Add and Subtract with Renaming	190		

Chapter Seven Multiplication and Division of Fractions

Lesson	Page	Lesson	Page
83 Multiply Whole Numbers and Fractions	204	90 Divide Fractions and Mixed Numbers.	218
84 Multiply Fractions and Whole Numbers	206	91 Order of Operations with Fractions.	220
85 Multiply Fractions.	208	92 Problem Solving.	222
86 Multiply Fractions and Mixed Numbers.	210	93 Betweenness Property/Study Guide.	224
87 Models of Division of Fractions	212	94 Chapter Seven Check-Up	226
88 Divide Whole Numbers by Fractions	214	Answer Key.	228
89 Divide with Fractions	216		

Chapter Eight Integers

Lesson	Page	Lesson	Page
95 Concepts of Integers	234	101 Division of Integers	246
96 Compare and Order Integers	236	102 Problem Solving.	248
97 Introduction to Addition of Integers	238	103 Four-Quadrant Grid/Study Guide	250
98 Addition of Integers	240	104 Chapter Eight Check-Up	252
99 Subtraction of Integers	242	Answer Key.	254
100 Multiplication of Integers.	244		

Chapter Nine Perimeter, Area, and Volume

Lesson	Page	Lesson	Page
105 Perimeter.	260	112 Surface Area of Cylinders.	274
106 Area of Quadrilaterals.	262	113 Volume of Rectangular Prisms	276
107 Area of Triangles	264	114 Volume of Prisms and Cylinders	278
108 Circumference	266	115 Explore Algebra: Using a Formula	280
109 Area of Circles.	268	116 Map Skills/Study Guide.	282
110 Perimeter and Area of Irregular Figures	270	117 Chapter Nine Check-Up	284
111 Surface Area of Prisms and Pyramids	272	Answer Key.	286

Chapter Ten Ratio, Proportion, and Percent

Lesson	Page	Lesson	Page
118 Ratios and Equal Ratios	292	126 Estimation of Percent	308
119 Ratios and Rates	294	127 Explore Algebra: Find a Percent	310
120 Proportions	296	128 Problem Solving	312
121 Using Proportions	298	129 Taxes and Discounts	314
122 Percent	300	130 Interest/Study Guide	316
123 Percents and Decimals	302	131 Chapter Ten Check-Up	318
124 Percents and Fractions	304	Answer Key	320
125 Percent of a Number	306		

Chapter Eleven Application of Statistics and Graphing

Lesson	Page	Lesson	Page
132 Working with Data	326	138 Circle Graphs	338
133 Mean, Median, Mode, and Range	328	139 Problem Solving	340
134 Stem and Leaf Plots	330	140 Scale Drawing/Study Guide	342
135 Bar Graphs	332	141 Chapter Eleven Check-Up	344
136 Line Graphs	334	Answer Key	346
137 Misleading Graphs	336		

Chapter Twelve Introduction to Probability

Lesson	Page	Lesson	Page
142 Introduction to Probability	354	147 Number Cubes	364
143 Equally and Unequally Likely	356	148 Compound Events	366
144 Tree Diagram and Sample Space	358	149 Probability Fair/Study Guide	368
145 Arrangements	360	150 Chapter Twelve Check-Up	370
146 Permutations and Combinations	362	Answer Key	372

Chapter Thirteen Measurement

Lesson	Page	Lesson	Page
151 Time	380	156 Metric Units of Length	390
152 Customary Units of Length	382	157 Metric Units of Capacity	392
153 Customary Units of Weight	384	158 Metric Units of Mass	394
154 Customary Units of Capacity	386	159 Binary Numbers/Study Guide	396
155 Temperature	388	160 Chapter Thirteen Check-Up	398

Chapter Fourteen Cumulative Review and Group Projects

Lesson	Page	Lesson	Page
161 Cumulative Review: Chapters 1–3	404	167 Construction Project	416
162 Cumulative Review: Chapters 4, 9, and 13	406	168 Fermi Problems	418
163 Cumulative Review: Chapters 5–7	408	169 Consumer Math Project	420
164 Cumulative Review: Chapters 8 and 10	410	170 Strategy Games	422
165 Cumulative Review: Chapters 11 and 12	412	Answer Key	424
166 Logic Problems	414		

Teacher Resources

	Page
Table of Measures	427
Formulas and Symbols	428
Student Glossary	430
Index	439

Additional Resources

	Page
Blackline Masters	Volume II
Color Transparencies	Volume II