

## Table of Contents

<b>Letter to Homeschooling Parents</b> _____	1
<b>Key Product Features</b> _____	2
<b>Suggestions on How to Use the Product</b> _____	3
<b>Chapter 1: Adding &amp; Subtracting Whole Numbers</b> _____	5
Lesson 1—Number Basics	6
Lesson 2—Writing Numbers	9
Lesson 3—Addition	12
Lesson 4—Carrying	15
Lesson 5—Adding Three or More Numbers	18
Lesson 6—Subtraction	21
Lesson 7—Regrouping	25
Lesson 8—Adding and Subtracting in Your Head	29
Chapter 1 Quiz	33
<b>Chapter 2: Multiplying &amp; Dividing Whole Numbers</b> _____	37
Lesson 9—Over and Over	38
Lesson 10—Multiplying with Zeros	42
Lesson 11—Long Multiplication	45
Lesson 12—Multiplying with Two Digits	48
Lesson 13—Multiplying with Three Digits	51
Lesson 14—Multiplying in Your Head	54
Lesson 15—Division	57
Lesson 16—Dividing with Zeros	60
Lesson 17—Long Division	63
Lesson 18—Dividing with More Digits	67
Lesson 19—Divisibility Rules—Part 1	70
Lesson 20—Divisibility Rules—Part 2	73
Chapter 2 Quiz	77
<b>Chapter 3: Whole Numbers in the Real World</b> _____	81
Lesson 21—Eating Right	82
Lesson 22—Quilting	86
Lesson 23—Income Taxes	90
Lesson 24—Computer Hard Drives	94
Lesson 25—Buying a Car	98
Lesson 26—Order of Operations	102

Lesson 27—Using Parentheses and Fraction Bars	106
Chapter 3 Quiz	110
<b>Chapter 4: Fractions</b>	<b>113</b>
Lesson 28—Part of a Whole	114
Lesson 29—Larger Numerators	118
Lesson 30—Bigger on Top than Bottom	122
Lesson 31—Writing a Fraction in Two Ways	126
Lesson 32—Equivalent Fractions	130
Chapter 4 Quiz	134
<b>Chapter 5: Reducing Fractions</b>	<b>137</b>
Lesson 33—Making Fractions Simpler	138
Lesson 34—Greatest Common Factor	142
Lesson 35—Factoring and Canceling	146
Lesson 36—Prime Numbers	150
Lesson 37—Ratios	154
Lesson 38—Proportions	158
Chapter 5 Quiz	163
<b>Chapter 6: Adding &amp; Subtracting Fractions</b>	<b>167</b>
Lesson 39—When the Bottoms are the Same	168
Lesson 40—Matching Up the Bottoms	172
Lesson 41—Changing Both Denominators	176
Lesson 42—Lowest Common Denominator	180
Lesson 43—Three or More	184
Lesson 44—Whole Numbers and Fractions	188
Lesson 45—Adding and Subtracting Mixed Numbers	192
Lesson 46—Converting from Mixed Number to Improper Fraction	196
Lesson 47—Converting from Improper Fraction to Mixed Number	200
Chapter 6 Quiz	204
<b>Chapter 7: Multiplying and Dividing Fractions</b>	<b>207</b>
Lesson 48—Multiplying the Tops and Bottoms	208
Lesson 49—Fraction of a Whole Number	212
Lesson 50—Dividing with Fractions	216
Lesson 51—More Dividing with Fractions	220
Chapter 7 Quiz	224
<b>Chapter 8: Fractions in the Real World</b>	<b>227</b>
Lesson 52—Clearance Sale	228
Lesson 53—Ratios and Recipes	232

---

TABLE OF CONTENTS

---

Lesson 54—Advertising	236
Lesson 55—Carpentry	241
Chapter 8 Quiz	246
<b>Chapter 9: Decimals</b> _____	<b>249</b>
Lesson 56—Expanded Notation	250
Lesson 57—Adding and Subtracting Decimals	255
Lesson 58—Working with More than One Decimal Digit	259
Lesson 59—Multiplying Decimals	264
Lesson 60—Multiplying and Dividing Decimals by 10, 100, 1,000...	268
Lesson 61—Long Division with Decimals	272
Lesson 62—Decimal Remainders	276
Lesson 63—Converting Fractions to Decimals	280
Lesson 64—Converting Decimals to Fractions	284
Lesson 65—Never-Ending Decimals	287
Lesson 66—Rounding and Estimating	291
Chapter 9 Quiz	295
<b>Chapter 10: Decimals in the Real World</b> _____	<b>299</b>
Lesson 67—Checking Accounts	300
Lesson 68—Hours and Minutes	304
Lesson 69—Stock Prices	309
Lesson 70—Using a Calculator	314
Chapter 10 Quiz	319
<b>Chapter 11: Percents</b> _____	<b>323</b>
Lesson 71—The Concept of Percent	324
Lesson 72—Calculating Percents	328
Lesson 73—Percent of Any Number	332
Lesson 74—Percents with Fractions and Decimals	336
Lesson 75—What’s the Percent?	340
Chapter 11 Quiz	344
<b>Chapter 12: Percents in the Real World</b> _____	<b>347</b>
Lesson 76—Sales Commissions	348
Lesson 77—Profit Margins	352
Lesson 78—A Trip to the Bank	356
Lesson 79—What’s the Sales Tax Rate?	360
Chapter 12 Quiz	364
<b>Chapter 13: Geometry Basics</b> _____	<b>367</b>
Lesson 80—Lines, Line Segments, and Rays	368

Lesson 81—Angles	372
Lesson 82—Measuring Angles	377
Lesson 83—Angles in Pairs	382
Lesson 84—Triangles	388
Lesson 85—Quadrilaterals	393
Lesson 86—Congruent and Similar Figures	399
Chapter 13 Quiz	405
<b>Chapter 14: Geometric Measurement</b>	<b>409</b>
Lesson 87—Perimeter	410
Lesson 88—Area	416
Lesson 89—Area of a Parallelogram and Triangle	421
Lesson 90—Area in Pieces	426
Lesson 91—Circles	432
Lesson 92—Measuring Circles	438
Lesson 93—Solids and Volume	444
Chapter 14 Quiz	450
<b>Chapter 15: Statistics &amp; Probability</b>	<b>455</b>
Lesson 94—Mean, Median, Mode, and Range	456
Lesson 95—Probability and Insurance	462
Lesson 96—Theoretical Probability	467
Lesson 97—More than One Event	472
Lesson 98—Samples	476
Chapter 15 Quiz	481
<b>Chapter 16: Graphing Concepts</b>	<b>485</b>
Lesson 99—Circle Graphs, Bar Graphs, and Line Graphs	486
Lesson 100—Histograms	493
Lesson 101—Box and Whisker Plots	499
Lesson 102—The Number Line and Negative Numbers	505
Lesson 103—The Coordinate Plane	511
Chapter 16 Quiz	518
<b>Chapter 17: Equations &amp; Inequalities</b>	<b>523</b>
Lesson 104—Equations	524
Lesson 105—Undoing Multiplication and Division	529
Lesson 106—Greater Than, Less Than	533
Lesson 107—Solving Inequalities	539
Chapter 17 Quiz	544

---

TABLE OF CONTENTS

---

<b>Additional Topics</b>	<b>549</b>
Lesson 108—Units of Measure	550
Lesson 109—Metric System	555
Lesson 110—Powers & Exponents	561
Lesson 111—Square Roots	565
Lesson 112—The Pythagorean Theorem	569
Lesson 113—Working with Negatives	574
Lesson 114—Subtracting Negatives	578
Lesson 115—Multiplying and Dividing Negatives	581
Additional Topics Quiz	586