

Table of Contents

Resources	
Course Overview	1
BHAC Sheet	2
Denison Method	17

Chapter 1: Whole Numbers 18

1-1 What is Math & How to Learn It	19
1-2 Adding Whole Numbers	23
1-3 Subtracting Whole Numbers	27
1-4 Multiplying Whole Numbers	31
1-5 Multiplying Whole Numbers (Part 2)	35
1-6 Exponents	39
1-7 Dividing Whole Numbers	43
1-8 Order of Operations	47
1-9 Review of Chapter 1	51

Chapter 2: Integers 56

2-1 Intro to Integers (Negative Numbers) ...	57
2-2 Adding & Subtracting Integers (Part 1) .	61
2-3 Adding & Subtracting Integers (Part 2) .	65
2-4 Adding & Subtracting Integers: Practice	67
2-5 Double Negatives	69
2-6 Multiplying Integers	71
2-7 Dividing Integers	73
2-8 Exponents and Negative Numbers	75
2-9 Putting It All Together	79
2-10 Review of Chapter 2	83

Chapter 3: Decimals 88

3-1 Intro to Decimals	89
3-2 Rounding Decimals	93

3-3 Adding & Subtracting Decimals	95
3-4 Multiplying & Dividing Decimals	97
3-5 Square Roots	99
3-6 Review of Chapter 3	101

Chapter 4: Fractions 106

4-1 Intro to Fractions	107
4-2 Comparing Fractions	109
4-3 Reducing Fractions	113
4-4 Mixed Numbers & Improper Fractions	115
4-5 Adding & Subtracting Fractions (Part 1)	117
4-6 Adding & Subtracting Fractions (Part 2)	119
4-7 Multiplying Fractions	121
4-8 Dividing Fractions	123
4-9 Review of Chapter 4	125

Chapter 5: Strengthening The Skills 130

5-1 Integers	131
5-2 Exponents	133
5-3 Decimals	137
5-4 Fractions	139
5-5 Absolute Value	141
5-6 Order of Operations...Again	145
5-7 Factors and GCF	147
5-8 Prime Factorization (Factor Trees)	151
5-9 Review of Chapter 5	155

Table of Contents

Chapter 6: Variables 160

6-1 Intro to Algebra and Substitution (Part 1)	161
6-2 Substitution: Negatives and Exponents	165
6-3 Substitution (Part 3)	167
6-4 Adding & Subtracting with Letters	171
6-5 Adding & Subtracting with Letters (Part 2)	175
6-6 Multiplying with Letters	177
6-7 Dividing with Letters	179
6-8 Review of Chapter 6	181

Chapter 7: Exponents186

7-1 Exponents: Squares and Cubes (Memorizing)	187
7-2 Variables & Exponents: Simplifying	189
7-3 Exponent Rule #1: Multiplying	191
7-4 Exponent Rule #2: Dividing	193
7-5 Exponent Rule #3: Negative Exponents	195
7-6 Exponent Rule #4: Power to a Power	197
7-7 Exponent Rules: Putting It All Together	199
7-8 Scientific Notation	201
7-9 Scientific Notation (Part 2)	205
7-10 Review of Chapter 7	207

Chapter 8: Solving Equations. 210

8-1 Intro to Solving Equations	211
8-2 Solving 1-Step Equations- Add & Subtract	213
8-3 Solving 1-Step Equations- Add & Subtract (Part 2)	215

8-4 Solving 1-Step Equations (Multiply & Divide)	219
8-5 Solving 1-Step Equations (Multiply & Divide) – Part 2	223
8-6 Putting It All Together	227
8-7 Solving 2-Step Equations	231
8-8 Review of Chapter 8	235

Chapter 9: Solving Equations (Part 2) 238

9-1 Solving Equations with Fraction & Decimal Answers	239
9-2 The Distributive Property	243
9-3 Solving Equations & The Distributive Property	245
9-4 Combining Like Terms	249
9-5 Solving Equations & Combining Like Terms	251
9-6 Review of Chapter 9	253

Chapter 10: Word Problems .. 258

10-1 Translating Words into Math	259
10-2 Letters in Word Problems	263
10-3 Number Word Problems (Warming Up)	267
10-4 “Rate” Word Problems	269
10-5 “Rate & Constant” Word Problems	273
10-6 Motion Word Problems	277
10-7 Review of Chapter 10	281

Chapter 11: Solving Inequalities 286

11-1 Inequalities & Graphing on the Number Line	287
---	-----

Table of Contents

11-2 Solving Inequalities	291	14-3 Area	379
11-3 Solving Inequalities (Part 2)	293	14-4 Angles & Sides of Triangles	383
11-4 Flipping Symbol Rule	295	14-5 Triangles Sum and Inequality Theorems	387
11-5 Inequality Word Problems	299	14-6 Similar Triangles	391
11-6 Review of Chapter 11	303	14-7 Intro to Circles and Pi	395
Chapter 12: Graphing	308	14-8 Circumference	397
12-1 Intro to 2-Variable Equations	309	14-9 Area of a Circle	399
12-2 Plotting Points	311	14-10 Review of Chapter 14	401
12-3 Graphing Equations (Part 1).....	315	Chapter 15: Probability and	
12-4 Graphing Equations (Part 2).....	319	Statistics	408
12-5 Graphing Lines – Slope Intro	323	15-1 Probability- Simple Events.....	409
12-6 Graphing Lines – Slope Intercept Form	327	15-2 Probability- Compound Events.....	413
12-7 Graphing Lines – Slope Intercept Form (Part 2)	331	15-3 Counting Outcomes	417
12-8 Review of Chapter 12.....	335	15-4 Statistics: Measures of Central Tendency	421
Chapter 13: Ratio, Proportions, & Percent	340	15-5 Statistics: Stem & Leaf Plot	425
13-1 Ratios	341	15-6 Statistics: Box & Whisker Plot	427
13-2 Unit Rates	345	Final Exam Review & Practice	
13-3 Proportions	349	Test	432
13-4 Using Proportions in Word Problems	351		
13-5 Intro to Percent	355		
13-6 The Percent Proportion	359		
13-7 Percent Word Problems.....	363		
13-8 Review of Chapter 13	367		
Chapter 14: Geometry	372		
14-1 Geometry Intro	373		
14-2 Perimeter	375		