## TABLE OF CONTENTS

### **CHAPTER 1:** Whole Numbers

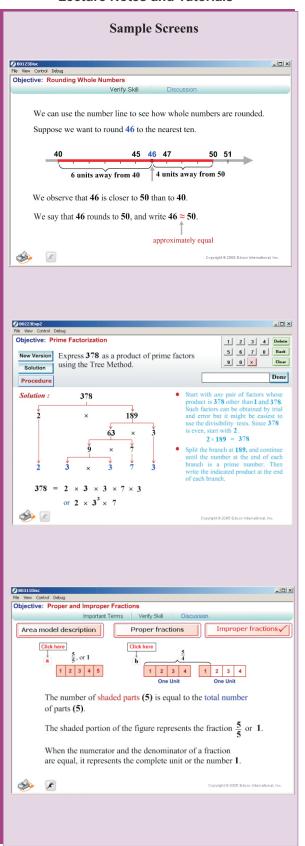
1.1 1.2	Whole Numbers and Place Value System Expanded Form, Inequalities and Rounding	1-9
	Whole Numbers	10-19
1.3	Addition and Subtraction of Whole Numbers	20-36
1.4	Multiplication and Division of Whole Numbers	37-51
1.5	Exponents, Order of Operations, and Averages	52-62
1.6	Chapter Summary	62-69
1.7	Review Exercises	69-72
1.8	Self Test	72-73
1.9	Cumulative Multiple Choice Test	74-74

## **CHAPTER 2:** Factors and Multiples

2.1	Factors and Divisibility Tests	75-84
2.2	Prime Factorization and the Greatest Common	
	Factor	85-99
2.3	Multiples and the Least Common Multiple	99-105
2.4	Chapter Summary	106-109
2.5	Review Exercises	110-111
2.6	Self Test	111-111
2.7	Cumulative Multiple Choice Test	112-112

### **CHAPTER 3:** Fractions

3.1	Introduction to Fractions	113-127
3.2	Equivalent Fractions	128-138
3.3	Multiplication and Division of Fractions	138-148
3.4	Ordering Fractions	149-159
3.5	Addition and Subtraction of Fractions	160-174
3.6	Combinations of Operations and Averages	175-181
3.7	Chapter Summary	181-188
3.8	Review Exercises	188-189
3.9	Self Test	189-190
3.10	Cumulative Multiple Choice Test	191-192



### **CHAPTER 4:** Decimals

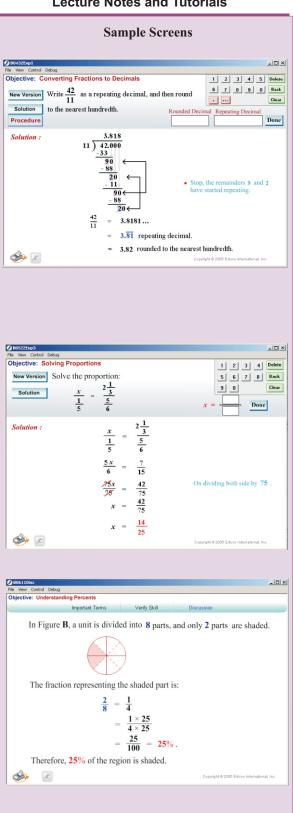
4.1	Place Value System, Word Names, and Expanded Form	193-204
4.2	Changing Decimals to Fractions, Listing in Order Rounding Decimals	; 205-212
4.3	Changing Fractions to Decimals	213-218
4.4	Addition and Subtraction of Decimals	218-225
4.5	Multiplication of Decimals	226-232
4.6	Division of Decimals	232-240
4.7	Multiplication and Division by Powers of 10	241-244
4.8	Order of Operations on Decimals and Averages	245-248
4.9	Chapter Summary	249-254
4.10	Review Exercises	254-257
4.11	Self Test	257-258
4.12	Cumulative Multiple Choice Test	259-260

## CHAPTER 5: Ratio and Proportion

5.1	Ratio and Unit Rate	261-270
5.2	Solving Proportions	271-276
5.3	Applications of Proportions	277-282
5.4	Chapter Summary	282-284
5.5	Review Exercises	284-285
5.6	Self Test	286-286
5.7	Cumulative Multiple Choice Test	287-288

### **CHAPTER 6:** Percents

6.1	Introduction to Percents	289-295
6.2	Changing Fractions and Decimals to Percents	296-302
6.3	The Percent Proportion and the Percent Formula	303-308
6.4	Applications of Percents	309-317
6.5	Chapter Summary	318-320
6.6	Review Exercises	321-321
6.7	Self Test	322-322
6.8	Cumulative Multiple Choice Test	323-324



# **TABLE OF CONTENTS**

## **CHAPTER 7:** Tables and Graphs

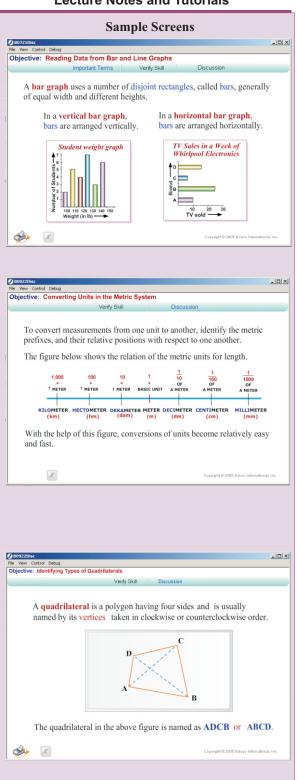
Reading and Interpreting Data from a Table	325-331
Reading and Interpreting Data from a Graph	332-341
Chapter Summary	342-344
Review Exercises	345-346
Self Test	346-347
Cumulative Multiple Choice Test	348-350
	Reading and Interpreting Data from a Graph Chapter Summary Review Exercises Self Test

### **CHAPTER 8:** Measurements

8.1	Basic Operations on Measurements in the Same	
	System	351-359
8.2	Unit Conversions in the Same System	360-368
8.3	Conversions Between the English and Metric	
	Systems	368-372
8.4	Estimating Measurements in the Metric System	372-375
8.5	Chapter Summary	376-378
8.6	Review Exercises	378-379
8.7	Self Test	379-380
8.8	Cumulative Multiple Choice Test	381-382

## CHAPTER 9: Basic Geometry

9.1	Lines and Angles	383-388
9.2	Polygons: Triangles, and Quadrilaterals	389-392
9.3	Perimeter and Area of Polygons	392-399
9.4	Circles: Circumference and Area	399-403
9.5	Square Roots and the Pythagorean Theorem	403-406
9.6	Volume of Three Dimensional Figures (Solids)	407-411
9.7	Chapter Summary	411-416
9.8	Review Exercises	417-417
9.9	Self Test	418-418
9.10	Cumulative Multiple Choice Test	419-420



## TABLE OF CONTENTS

## CHAPTER 10: Integers, Exponents and Order of Operation

10.1	Integers, Opposites and Absolute Values	421-427
10.2	Addition and Subtraction of Integers	428-437
10.3	Multiplication of Integers	438-442
10.4	Division of Integers	443-446
10.5	Exponents, Order of Operations and	
	Solving Equations	447-454
10.6	Chapter Summary	454-457
10.7	Review Exercises	457-458
10.8	Self Test	458-459
10.9	Cumulative Multiple Choice Test	460-461

## CHAPTER 11: Prelude to Algebra

11.1	Expressions and Equations	463-469
11.2	Simplifying Expression	470-480
11.3	Simple Linear Equations	481-487
11.4	Chapter Summary	487-490
11.5	Review Exercises	490-491
11.6	Self Test	491-492
11.7	Cumulative Multiple Choice Test	493-494

Answers	A.1 - A.21

## *Index* I.1 - I.4

