

# CONTENTS

## *Chapter I*

### Special Products and Factors of Polynomials

Lesson 1	Special Products.....	2
Lesson 2	Factoring Using the Greatest Common Factor .....	14
Lesson 3	Factoring Quadratic Trinomials and Special Products.....	24
Lesson 4	Solving Equations Using Factoring.....	38
CHAPTER TEST	.....	50

## *Chapter II*

### Integral Exponents and Rational Expressions

Lesson 1	Algebraic Expressions with Intergal Exponents .....	54
Lesson 2	Rational Algebraic Expressions .....	66
Lesson 3	Operations on Rational Expressions.....	74
Lesson 4	Solving Rational Equations.....	90
CHAPTER TEST	.....	102

## *Chapter III*

### Linear Equations and Functions

Lesson 1	Relations and Functions.....	108
Lesson 2	Linear Functions .....	122
Lesson 3	Systems of Linear Equations.....	140
PERFORMANCE TASK	.....	160
Lesson 4	Linear Inequalities.....	163
CHAPTER TEST	.....	188

## Chapter IV

### Reasoning and Proof

Lesson 1	Conditional Statements.....	194
Lesson 2	Inductive and Deductive Reasoning .....	204
	PERFORMANCE TASK.....	222
Lesson 3	Geometric Proofs .....	224
	CHAPTER TEST .....	234

## Chapter V

### Triangle Congruence and Inequality

Lesson 1	Congruent Triangles.....	238
	PERFORMANCE TASK.....	260
Lesson 2	Triangle Inequalities .....	262
	CHAPTER TEST .....	274

## Chapter VI

### Parallel and Perpendicular Lines

Lesson 1	Relationship Between Lines .....	278
Lesson 2	Perpendicular and Parallel Lines .....	288
	CHAPTER TEST .....	300

## Chapter VII

### Descriptive Statistics and Probability of Events

Lesson 1	Introduction to Probability.....	304
Lesson 2	Measures of Central Tendency and Variability .....	320
	PERFORMANCE TASK.....	342
	CHAPTER TEST .....	344
	Glossary .....	350
	Bibliography .....	354
	Photo Credits .....	355
	Index .....	356