

CONTENTS

Introduction

Student Walk-Through

v

Chapter 1 Ratios and Proportions

Chapter 1 Glossary	1
1 Compute Unit Rates and Identify Proportional Relationships	2
2 Find Unit Rate in Tables, Graphs, and Equations	14
3 Determine the Constant of Proportionality	26
4 Write Equations to Show Proportional Relationships	38

Chapter 2 Rational Numbers

Chapter 2 Glossary	50
5 Add, Subtract, Multiply, and Divide Rational Numbers	51
6 Convert Rational Numbers to Decimals	63

Chapter 3 Expressions and Equations

	Chapter 3 Glossary	75
7	Add, Subtract, Factor, and Expand Linear Expressions	76
8	Write Equations to Solve Problems	88
9	Solve and Graph Inequalities	100

Chapter 4 Geometry

	Chapter 4 Glossary	112
10	Draw Geometric Shapes and Scale Drawings	114
11	Find Area and Circumference of Circles	126
12	Identify Nets for Solid Figures	138
13	Use Nets to Find Surface Areas of Solids	150
14	Solve Problems with Area, Circumference, Volume, and Surface Area	162

Chapter 5 Statistics and Probability

Chapter 5 Glossary	174
15 Understand Sampling	176
16 Compare and Interpret Data Sets	188
17 Approximate the Probability of Chance Events	200
18 Develop and Use Probability Models	212
19 Use Lists, Tables, and Tree Diagrams to Represent Sample Spaces	224
20 Understand Probability of Simple and Compound Events	236