# **CONTENTS**

#### **CHAPTER 8**



CHARLES AND		-
	gons and Geometrical structions	1
8.1	Quadrilaterals	2
8.2	Geometrical constructions of triangles and quadrilaterals	12
8.3	Polygons	20
Sum	mary	36
Revie	ew Exercise 8	37

### **CHAPTER 9**



Congruence and Similarity		41
9.1	Congruent figures	42
9.2	Similar figures	51
9.3	Similarity and map scales	61
Summary		65
Review Exercise 9		66

### **CHAPTER 10**



Pytha	agoras' Theorem	69
10.1	Pythagoras' Theorem	70
10.2	Applications of Pythagoras' Theorem in real-world contexts	79
10.3	Converse of Pythagoras' Theorem	85
Sumn	nary	87
Review Exercise 10		88

#### **CHAPTER 11**



Volume and Surface Area of Pyramids, Cones and Spheres		91
11.1	Volume and surface area of pyramids	92
11.2	Volume and surface area of cones	104
11.3	Volume and surface area of spheres	111
11.4	Volume and surface area of composite solids	118
Summary		123
Review Exercise 11		124
Revis	ion Exercise C1	127
Davision Evantica C1		120

### **CHAPTER 12**



Probability of Single Events		129	
12.1	Probability experiment and sample space	131	
12.2	Probability of single events	134	
12.3	Further examples of probability of single events	140	
12.4	Experimental approach to finding probability	143	
Sumn	nary	148	
Revie	w Exercise 12	148	

### **CHAPTER 13**



Statistical Diagrams		151
13.1	Dot diagrams	153
13.2	Histograms for ungrouped data	155
13.3	Stem-and-leaf diagrams	161
13.4	Histograms for grouped data	165
Summary		176
Review Exercise 13		176

## **CHAPTER 14**

