

# Contents

<b>Preface</b>	ix
<b>Prologue</b>	xi
<b>1 A Story to Tell</b>	1
<b>2 The Hotel</b>	7
<b>3 The Hairy Ball</b>	11
<b>4 Let's Make a Deal</b>	19
<b>5 The Barber</b>	23
<b>6 The Hilbert Curve</b>	27
<b>7 The Prime Shop</b>	33
<b>8 The Weierstrass Function</b>	39
<b>9 A Ham Sandwich</b>	47
<b>10 Monty Hall Redux</b>	53
<b>11 The Salesman</b>	57
<b>12 Hilbert Hotel Redux</b>	61
<b>13 On Principle</b>	67
<b>14 Ellie</b>	71
<b>15 The Mountain</b>	79
<b>16 On the Surface</b>	91
<b>17 A Journey</b>	97

<b>18 A Random Reunion</b>	101
<b>19 An Apology</b>	105
<b>20 The Mathemagician</b>	109
<b>21 The Sphere</b>	113
<b>22 The Hypothesis</b>	119
<b>23 The Cipher</b>	125
<b>Appendices</b>	133
<b>A More on Chapter 1 A Story to Tell</b>	135
<b>B More on Chapter 2 The Hotel</b>	139
<b>C More on Chapter 3 The Hairy Ball</b>	143
<b>D More on Chapter 4 Let's Make a Deal</b>	147
<b>E More on Chapter 5 The Barber Shop</b>	149
<b>F More on Chapter 6 The Hilbert Curve</b>	151
<b>G More on Chapter 7 The Prime Shop</b>	153
<b>H More on Chapter 8 The Weierstrass Function</b>	157
<b>I More on Chapter 9 A Ham Sandwich</b>	161
<b>J More on Chapter 10 The Monty Hall Redux</b>	165
<b>K More on Chapter 11 The Salesman</b>	167
<b>L More on Chapter 12 The Hilbert Hotel Redux</b>	169
<b>M More on Chapter 13 On Principle</b>	171
<b>N More on Chapter 14 Ellie</b>	173
<b>O More on Chapter 15 The Mountain</b>	177
<b>P More on Chapter 16 On the Surface</b>	181
<b>Q More on Chapter 17 A Journey</b>	185
<b>R More on Chapter 18 A Random Reunion</b>	187
<b>S More on Chapter 19 An Apology</b>	191

Contents	vii
<b>T More on Chapter 20 The Mathemagician</b>	193
<b>U More on Chapter 21 The Sphere</b>	195
<b>V More on Chapter 22 The Hypothesis</b>	199
<b>W More on Chapter 23 The Cipher</b>	203
<b>Index</b>	207