

Contents

Useful Knowledge and Formulas **II**

Chapter 1 Basic Mathematics

Warm Up Zone	2
Elite Zone	9
<i>Level Up Questions</i>	9
<i>Challenging Questions</i>	15

Chapter 2 Directed Numbers and the Number Line

Warm Up Zone	16
Elite Zone	18
<i>Level Up Questions</i>	18
<i>Challenging Questions</i>	26

Chapter 3 Introduction to Algebra

Warm Up Zone	28
Elite Zone	30
<i>Level Up Questions</i>	30
<i>Challenging Questions</i>	41

Chapter 4 Algebraic Equations in One Unknown

Warm Up Zone	44
Elite Zone	47
<i>Level Up Questions</i>	47
<i>Challenging Questions</i>	59

Chapter 5 Introduction to Geometry

Warm Up Zone	60
Elite Zone	63
<i>Level Up Questions</i>	63
<i>Challenging Questions</i>	74

Chapter 6 Introduction to Statistics and Statistical Charts

Warm Up Zone	77
Elite Zone	80
<i>Level Up Questions</i>	80
<i>Challenging Questions</i>	91

Chapter 7 Percentages (I)

Warm Up Zone	93
Elite Zone	97
<i>Level Up Questions</i>	97
<i>Challenging Questions</i>	106

Chapter 8 Approximate Values and Numerical Estimation

Warm Up Zone	107
Elite Zone	108
<i>Level Up Questions</i>	108
<i>Challenging Questions</i>	117

Chapter 9 Areas and Volumes (I)

Warm Up Zone	119
Elite Zone	122
<i>Level Up Questions</i>	122
<i>Challenging Questions</i>	137

Chapter 10 Manipulation of Simple Polynomials

Warm Up Zone	139
Elite Zone	142
<i>Level Up Questions</i>	142
<i>Challenging Questions</i>	150

Chapter 11 Angles related to Lines

Warm Up Zone	152
Elite Zone	156
<i>Level Up Questions</i>	156
<i>Challenging Questions</i>	166

Chapter 12 Introduction to Coordinates

Warm Up Zone	167
Elite Zone	171
<i>Level Up Questions</i>	171
<i>Challenging Questions</i>	184