8 Statistics 6

Refresh 8
8.1 Absolute and relative 10
8.2 Grouping data 14
8.3 Measures of spread 18
8.4 Box plot 22
8.5 Representing data 26
8.6 Mixed exercises 30
Summary learning goals | Extra exercises 32
Practice test 38

Fun with maths | Four colour theorem 40
Arithmetic and skills 4 42
In depth | Other types of mean 48

9 Functions and algebra 52

Refresh 54
9.1 Square root functions 56
9.2 Calculating with square roots 60
9.3 Fractional functions 64
9.4 Calculating with fractions 68
9.5 Power functions 72
9.6 Calculating with powers 76
9.7 Mixed exercises 80
Summary learning goals | Extra exercises 82
Practice test 88

10 Reasoning in triangles 90

Refresh 92
10.1 Perpendicular bisector 94
10.2 Altitude 98
10.3 Angle bisector 102
10.4 Median 106
10.5 Incircle and circumcircle 110
10.6 Mixed exercises 114
Summary learning goals | Extra exercises 116
Practice test 122

Fun with maths | Folding triangles 124
Arithmetic and skills 5 126
In depth | Voronoi diagrams 132

3B vwo

© Noordhoff Uitgevers bv

11A Equations and inequalities 136

Refresh 138
11A.1 Fractional equations 140
11A.2 Exponential and square root equations 144
11A.3 Parabola and line 148
11A.4 Intervals 152
11A.5 Quadratic inequalities 156
11A.6 Power equations 160
11A.7 Mixed exercises 164
Summary learning goals | Extra exercises 166
Practice test 172

11B Equations and inequalities 174

Refresh 176
11B.1 Fractional equations 178
11B.2 Exponential and square root equations 182
11B.3 Parabola and line 186
11B.4 Intervals 190
11B.5 Quadratic inequalities 194
11B.6 Power equations and power inequalities 198
11B.7 Mixed exercises 202
Summary learning goals | Extra exercises 204
Practice test 210

12A Looking at probability 212

Refresh 214
12A.1 Samples 216
12A.2 Simulations 220
12A.3 Probability experiments 224
12A.4 Calculating probabilities 228
12A.5 Mixed exercises 232
Summary learning goals | Extra exercises 234
Practice test 240

12B Circles 242

Refresh 244
12B.1 Equation of a circle 246
12B.2 The form $x^2 + y^2 + px + qy + s = 0$ 250
12B.3 Circle and line 254
12B.4 Intersect, touch or no common points 258
12B.5 Mixed exercises 262
Summary learning goals | Extra exercises 264
Practice test 270

Fun with maths | Geometric sequences 272
Arithmetic and skills 274
In depth | Number sequences 280

From books 1A, 1B, 2A, 2B and 3A 284
Index 296

© Noordhoff Uitgevers bv