

Contents | 1 vwo part A

GEOMETRY

1 Solids 8

Refresh 10

1.1 Faces, edges and vertices 12

1.2 Nets 16

1.3 Elevations 20

1.4 Lines of sight 24

1.5 Where are you standing? 28

Maths is everywhere | The theatre 32

Mixed exercises 34

Summary learning goals | Extra
exercises 36

Practice test 42

CALCULATIONS

2 Numbers 44

Refresh 46

2.1 Natural numbers 48

2.2 Fractions 52

2.3 Adding and subtracting fractions 56

2.4 Multiplying fractions 60

2.5 Decimal numbers 64

2.6 Percentages, fractions and decimal
numbers 68

Maths is everywhere | Storage
space 72

Mixed exercises 74

Summary learning goals | Extra
exercises 76

Practice test 82

In depth | Prime numbers 84

ALGEBRA

3 Graphs 88

Refresh 90

3.1 Coordinates 92

3.2 Working with coordinates 96

3.3 Reading graphs 100

3.4 Periodic graphs 104

3.5 Plotting graphs 108

3.6 Along the axes 112

Maths is everywhere | YouTube 116

Mixed exercises 118

Summary learning goals | Extra
exercises 120

Practice test 126

In depth | Connecting points 128

GEOMETRY

4 Lines and angles 132

Refresh 134

4.1 Lines 136

4.2 Distances 140

4.3 Right, acute, obtuse and straight 144

4.4 Measuring angles 148

4.5 Drawing angles 152

4.6 Constructing triangles 156

Maths is everywhere | Mondriaan 160

Mixed exercises 162

Summary learning goals | Extra
exercises 164

Practice test 170

CALCULATIONS

5 Ratio 172

Refresh 174

5.1 Calculating in a ratio table 176

5.2 Percentages 180

5.3 Scale 184

5.4 Dividing in a given ratio 188

Maths is everywhere | Grandma's
recipe 192

Mixed exercises 194

Summary learning goals | Extra
exercises 196

Practice test 202

ALGEBRA

6 Formulas and graphs 204

Refresh 206

6.1 Calculating with numbers 208

6.2 From description to formula 212

6.3 Graphs from formulas 216

6.4 Linear formulas 220

6.5 Making formulas for linear graphs 224

6.6 Comparing graphs 228

Maths is everywhere | Skiing
holiday 232

Mixed exercises 234

Summary learning goals | Extra
exercises 236

Practice test 242

In depth | Rules of thumb 244

ARITHMETIC

Arithmetic 1 248

Large numbers 250

Adding and subtracting whole
numbers 250

Multiplying and dividing whole
numbers 252

Fractions and decimal numbers 254

Metric system 255

Calculating with decimal numbers 257

Calculating with time 258

Smart calculations 260

Index 262

Contents | 1 vwo part B

7 Negative numbers

8 Formulas and equations

9 Perimeter, area and volume

10 Calculations with variables

11 Probability

12 Plane figures

Arithmetic 2