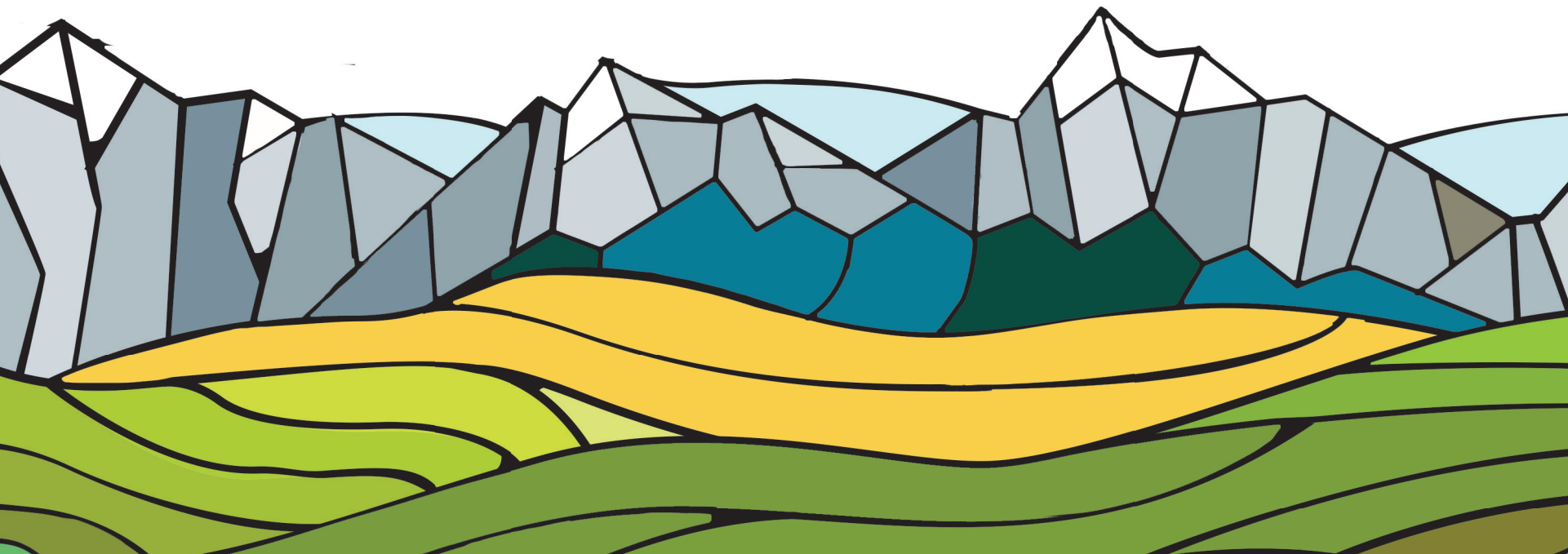


PRIMARY MATHEMATICS

Table of Contents Grades K - 6



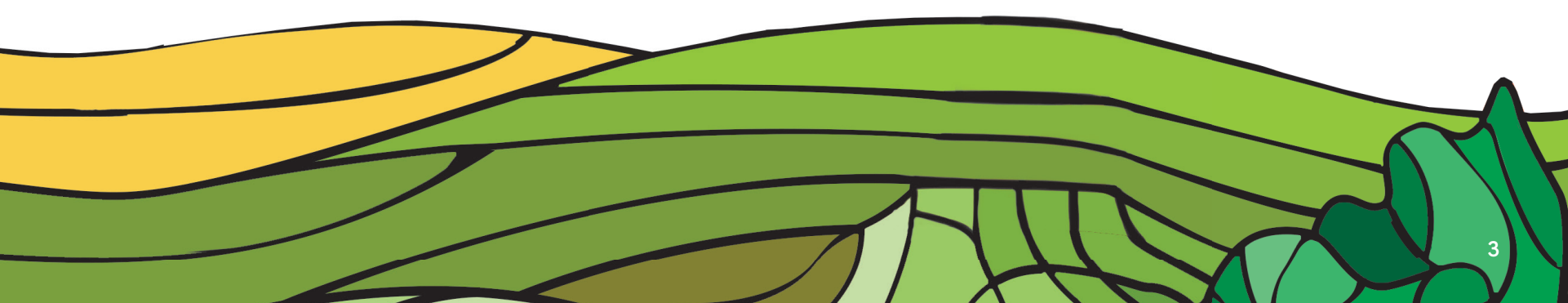
Grade K – Table of Contents

BOOK A	
Chapter 1 1A 1B	Count and Show Numbers to 5 Count and Show Count and Order
Chapter 2 2A 2B	Write Numbers to 5 Count and Write How Many?
Chapter 3 3A 3B	Numbers to 10 Numbers 6 to 10 Order Numbers to 10
Chapter 4 4A 4B 4C 4D	Shapes Solid Shapes Flat Shapes Shape Patterns Positions
Chapter 5 5A 5B 5C 5D 5E	Compare Numbers to 10 More Than Fewer Than Same Number Greater Than, Less Than, and Equal To I More Than and I Less Than



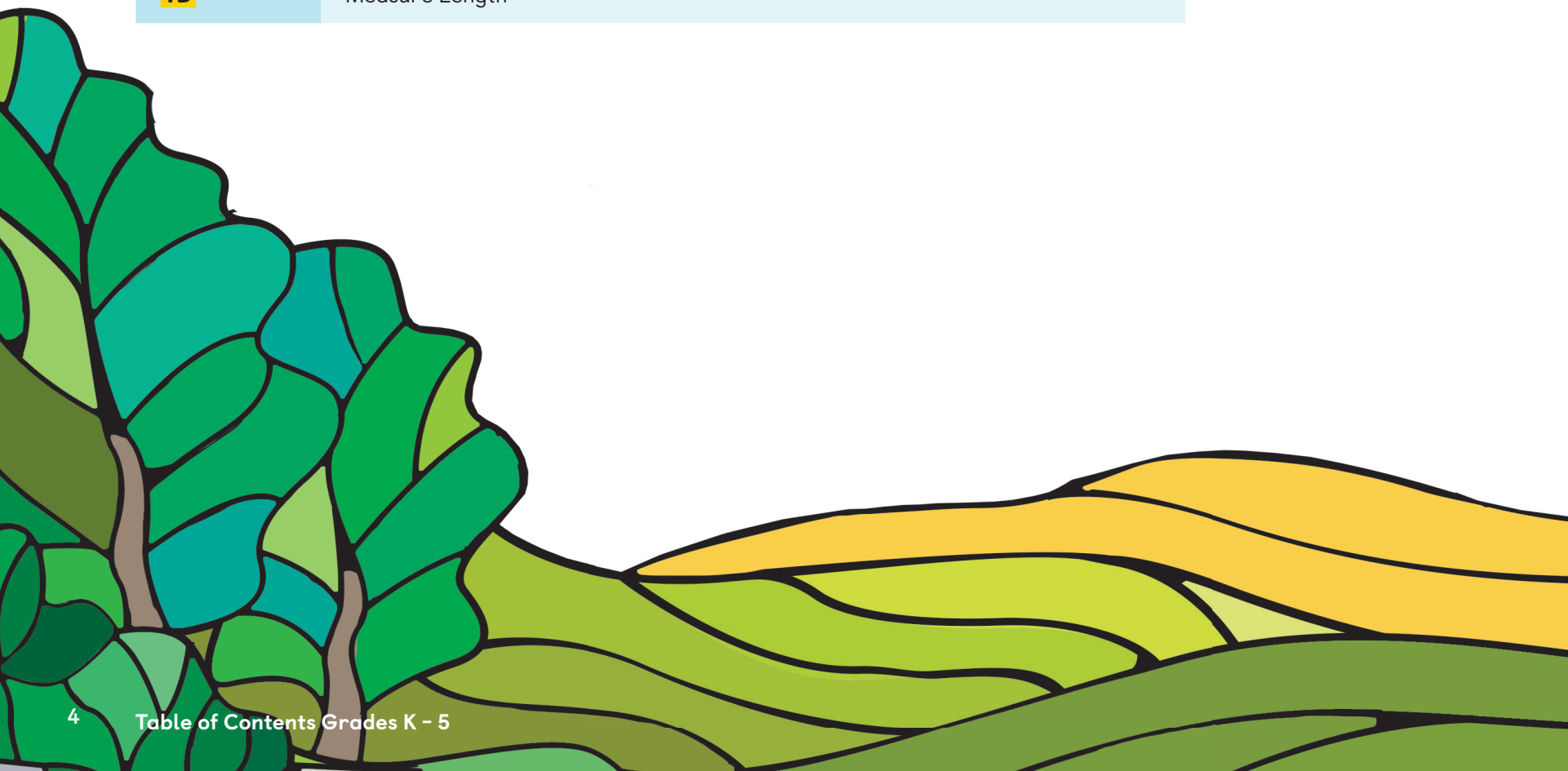
BOOK B

Chapter 6 6A 6B	Ways to Make and Break Numbers to 10 Ways to Make and Break Numbers to 5 Ways to Make and Break Numbers to 10
Chapter 7 7A 7B 7C 7D	Numbers to 20 Count and Write How Many? Take Apart Numbers Count and Order
Chapter 8 8A 8B 8C	Measurement Length Height Weight
Chapter 9 9A 9B 9C	Addition Addition Stories Add Fluently Within 5 Add Within 10
Chapter 10 10A 10B 10C	Subtraction Subtraction Stories Subtract Fluently Within 5 Subtract Within 10
Chapter 11 11A 11B	Addition and Subtraction Add or Subtract Word Problems
Chapter 12 12A 12B	Numbers to 100 Count Number Patterns



Grade 1 – Table of Contents

BOOK A	
Chapter 1 1A 1B 1C	Numbers to 10 Count Compare Numbers Number Bonds
Chapter 2 2A 2B	Addition Within 10 Make Addition Stories Ways to Add
Chapter 3 3A 3B 3C	Subtraction Within 10 Make Subtraction Stories Ways to Subtract Compare Numbers by Subtraction
Chapter 4 4A 4B	Numbers to 20 Count to 20 Compare and Order Numbers
Solve! Heuristics: Make a List	
Chapter 5 5A 5B	Addition and Subtraction Within 20 Addition Subtraction
Chapter 6 6A 6B	Addition and Subtraction Word Problems Part-Whole Problems Comparison Problems
Chapter 7 7A 7B	Length Compare Lengths Measure Length



BOOK B

Chapter 8

Numbers to 120

8A

Count to 120

8B

Compare and Order Numbers

8C

Count Money

Chapter 9

Addition and Subtraction Within 100

9A

Addition

9B

Subtraction

Solve! Heuristics: Make a List

Chapter 10

Data

10A

Picture Graphs

10B

Tally Charts and Picture Graphs

Solve! Heuristics: Guess and Check

Chapter 11

Shapes

11A

2-D Shapes

11B

Composing 2-D Shapes

11C

Composing 3-D Shapes

11D

Partition 2-D Shapes

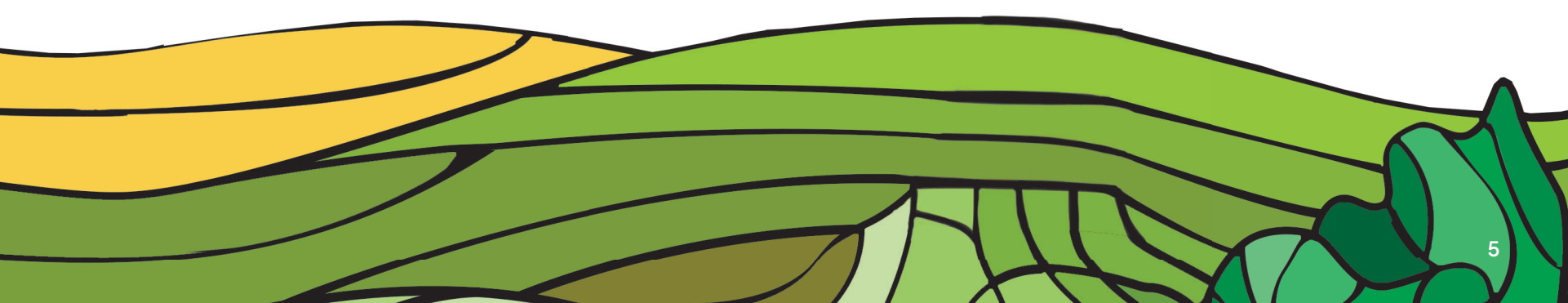
Solve! Heuristics: Look for a Pattern

Chapter 12

Time

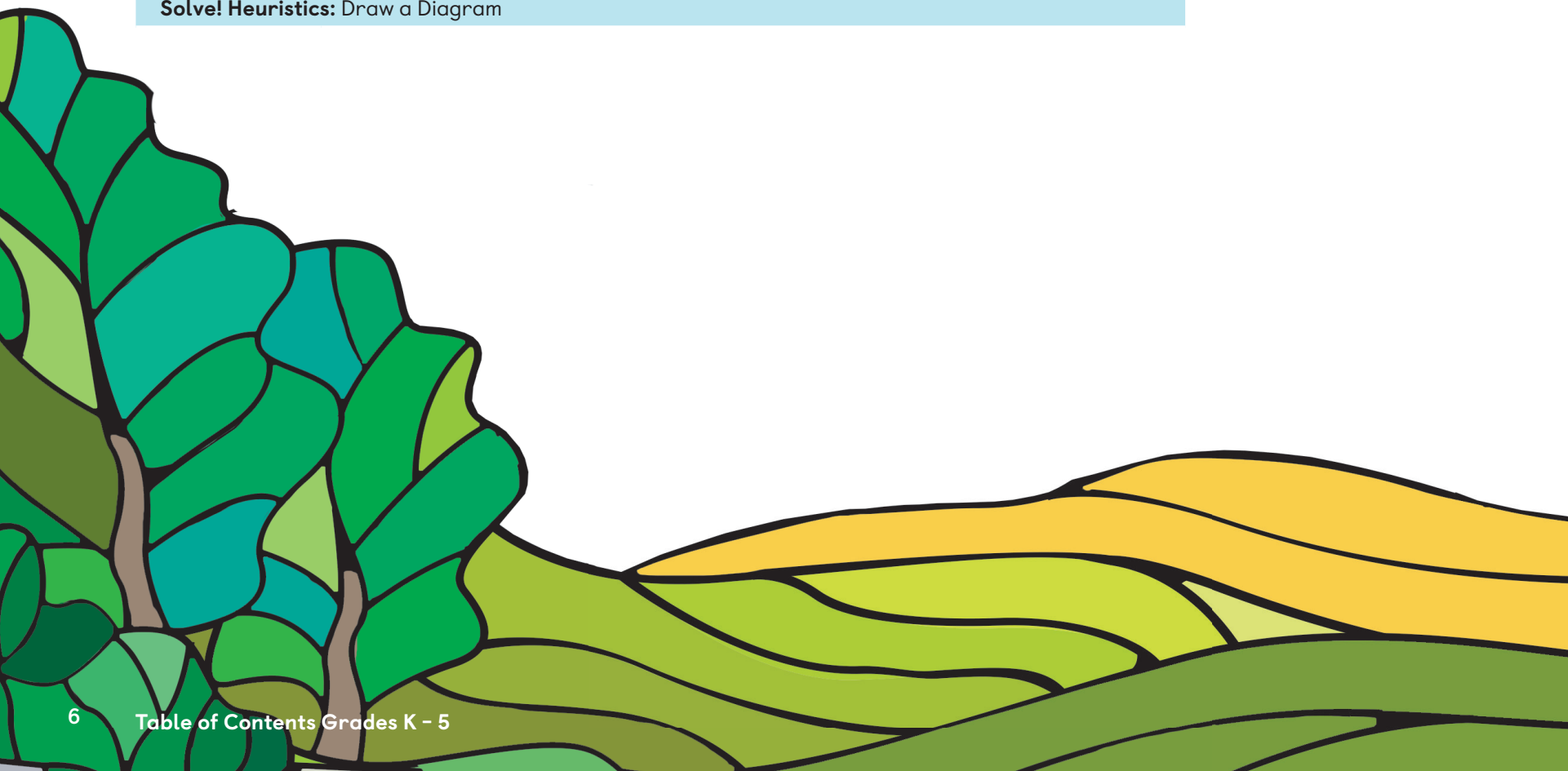
12A

Tell Time



Grade 2 – Table of Contents

BOOK A	
Chapter 1	Numbers to 1,000
1A	Count to 1,000
1B	Number Patterns
1C	Compare and Order Numbers
1D	Number Lines
1E	Count Money
Chapter 2	Addition Within 1,000
2A	Add Fluently Within 20
2B	Add Tens or Hundreds
2C	Add Without Renaming
2D	Add With Renaming
2E	Add Three or Four 2-Digit Numbers
Solve! Heuristics: Guess and Check	
Chapter 3	Subtraction Within 1,000
3A	Subtract Ones Fluently Within 20
3B	Subtract Tens or Hundreds
3C	Subtract Without Renaming
3D	Subtract With Renaming
3E	Relate Addition and Subtraction
Solve! Heuristics: Work Backwards	
Chapter 4	Addition and Subtraction Using Bar Models
4A	Sum and Difference
4B	Part-Whole Model
4C	Comparison Model
4D	Word Problems
Solve! Heuristics: Draw a Diagram	



BOOK B

Chapter 5

Length

- 5A** Measure and Estimate Length in Metric Units
- 5B** Measure and Estimate Length in Customary Units
- 5C** Compare and Order Lengths
- 5D** Word Problems

Solve! Heuristics: Draw a Diagram

Chapter 6

Multiplication

- 6A** Add Equal Groups
- 6B** Even and Odd Numbers
- 6C** Skip Count by 2s, 5s, and 10s
- 6D** Multiplication

Solve! Heuristics: Look for a Pattern

Chapter 7

Time

- 7A** Tell Time
- 7B** Hours and Minutes

Chapter 8

Data

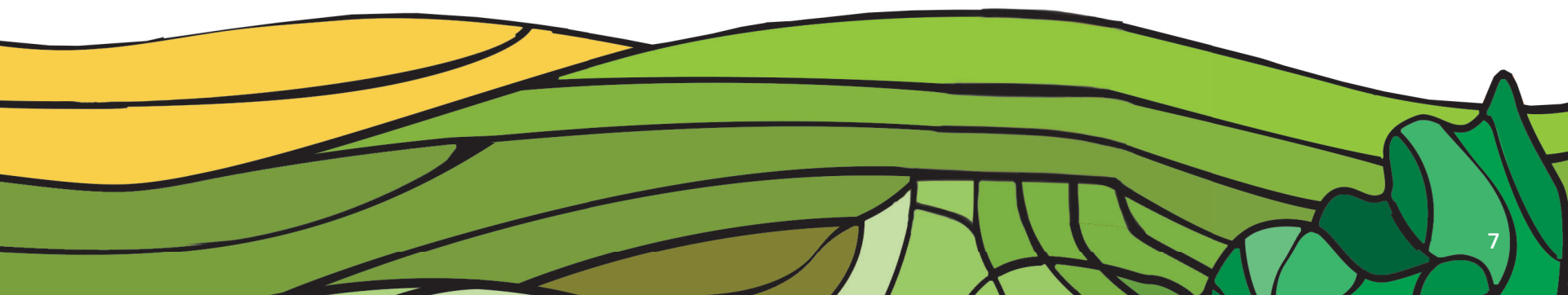
- 8A** Picture Graphs
- 8B** Bar Graphs
- 8C** Line Plots

Chapter 9

Shapes

- 9A** 2-D and 3-D Shapes
- 9B** Partition 2-D Shapes

Solve! Heuristics: Make a List



Grade 3 – Table of Contents

BOOK A	
Chapter 1	Numbers to 10,000
1A	Place Value
1B	Compare and Order Numbers
1C	Number Patterns
1D	Rounding Numbers
Chapter 2	Addition and Subtraction Within 10,000
2A	Addition and Subtraction Within 1,000
2B	Addition and Subtraction Within 10,000
2C	Other Addition and Subtraction Strategies
2D	Word Problems
Chapter 3	Multiplication and Division
3A	Multiplication
3B	Multiply by 2
3C	Multiply by 5
3D	Multiply by 10
3E	Multiply by 3
3F	Multiply by 4
3G	Word Problems:
3H	Division
3I	Divide by 2
3J	Divide by 5
3K	Divide by 10
3L	Divide by 3
3M	Divide by 4
3N	Word Problems
Solve! Heuristics: Look for a Pattern	
Chapter 4	Multiplication and Division of 6, 7, 8, and 9
4A	Multiply and Divide by 6
4B	Multiply and Divide by 7
4C	Multiply and Divide by 8
4D	Multiply and Divide by 9
4E	Multiply by Tens
4F	Multiply a 2-Digit Number by a 1-Digit Number
4G	Word Problems
Solve! Heuristics: Guess and Check	
Chapter 5	Time
5A	Hours and Minutes
5B	Word Problems

BOOK B

Chapter 6

Area and Perimeter

- 6A** Area
- 6B** Area of Squares and Rectangles
- 6C** Perimeter
- 6D** Composite Figures
- 6E** Word Problems

Solve! Heuristics: Make a Supposition

Chapter 7

Fractions

- 7A** Unit Fractions
- 7B** More Fractions
- 7C** Fractions Greater Than 1
- 7D** Compare and Order Fractions
- 7E** Equivalent Fractions
- 7F** Fractions on a Number Line
- 7G** Fractions of a Set

Chapter 8

Mass and Liquid Volume

- 8A** Measure Mass in Kilograms
- 8B** Measure Mass in Grams
- 8C** Measure Volume in Liters
- 8D** Word Problems

Solve! Heuristics: Act It Out

Chapter 9

Data

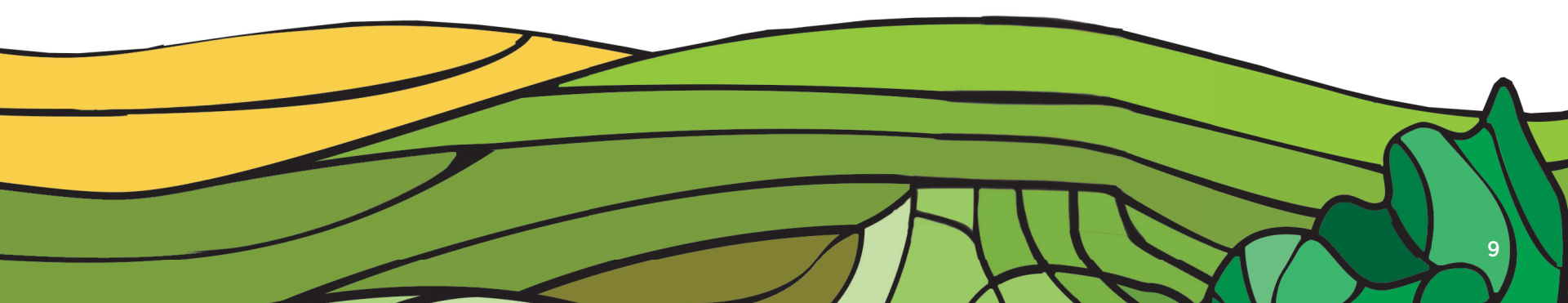
- 9A** Picture Graphs
- 9B** Bar Graphs
- 9C** Line Plots

Solve! Heuristics: Make a List

Chapter 10

Shapes

- 10A** Angles and Shapes



Grade 4 – Table of Contents

BOOK A	
Chapter 1	Multi-Digit Whole Numbers
1A	Numbers to 1,000,000
1B	Compare and Order Numbers
1C	Number and Shape Patterns
1D	Rounding Numbers
Chapter 2	Addition and Subtraction
2A	Add Multi-Digit Whole Numbers
2B	Subtract Multi-Digit Whole Numbers
2C	Word Problems
Solve! Heuristics: Use Before-After Concept	
Chapter 3	Multiplication and Division
3A	Multiplicative Comparisons
3B	Word Problems
3C	Factors, Multiples, and Prime Numbers
3D	Multiply by Tens, Hundreds, and Thousands
3E	Multiply a 2-Digit Numbers by a 1-Digit Number
3F	Multiply a 3-Digit or a 4-Digit Number by a 1-Digit Number
3G	Word Problems
3H	Multiply a 2-Digit Number by a 2-Digit Number
3I	Quotient and Remainder
3J	Divide a 2-Digit Number by a 1-Digit Number
3K	Divide a 3-Digit or a 4-Digit Number by a 1-Digit Number
3L	Estimate Quotients
3M	Word Problems
Chapter 4	The Four Operations Using Bar Models
4A	Word Problems
Solve! Heuristics: Tabulating	
Chapter 5	Fractions
5A	Equivalent Fractions
5B	Compare and Order Fractions
5C	Add and Subtract Like Fractions
5D	Word Problems
Chapter 6	Mixed Numbers, Improper Fractions, and Operations on Fractions
6A	Mixed Numbers and Improper Fractions
6B	Add and Subtract Mixed Numbers
6C	Word Problems
6D	Multiply a Fraction and a Whole Number
6E	Line Plots
Solve! Heuristics: Simplify the Problem	

BOOK B

Chapter 7

Decimals

7A

Tenths

7B

Hundredths

7C

Number Patterns

Solve! Heuristics: Look for a Pattern

Chapter 8

Area and Perimeter

8A

Rectangles and Squares

8B

Composite Figures

Solve! Heuristics: Make a Supposition

Chapter 9

Geometry

9A

Points, Lines, Line Segments, Rays, and Angles

9B

Acute Angles, Right Angles, and Obtuse Angles

9C

Measure Angles

9D

Perpendicular and Parallel Line Segments

9E

Line of Symmetry

Chapter 10

Measurement, Time, and Conversion

10A

Metric Units of Measurement and Conversion

10B

Customary Units of Measurement and Conversion

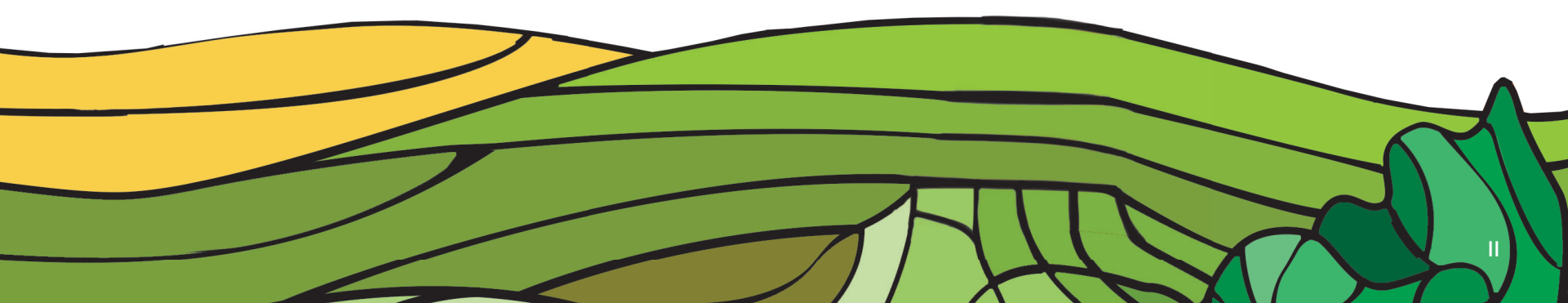
10C

Time and Conversion

10D

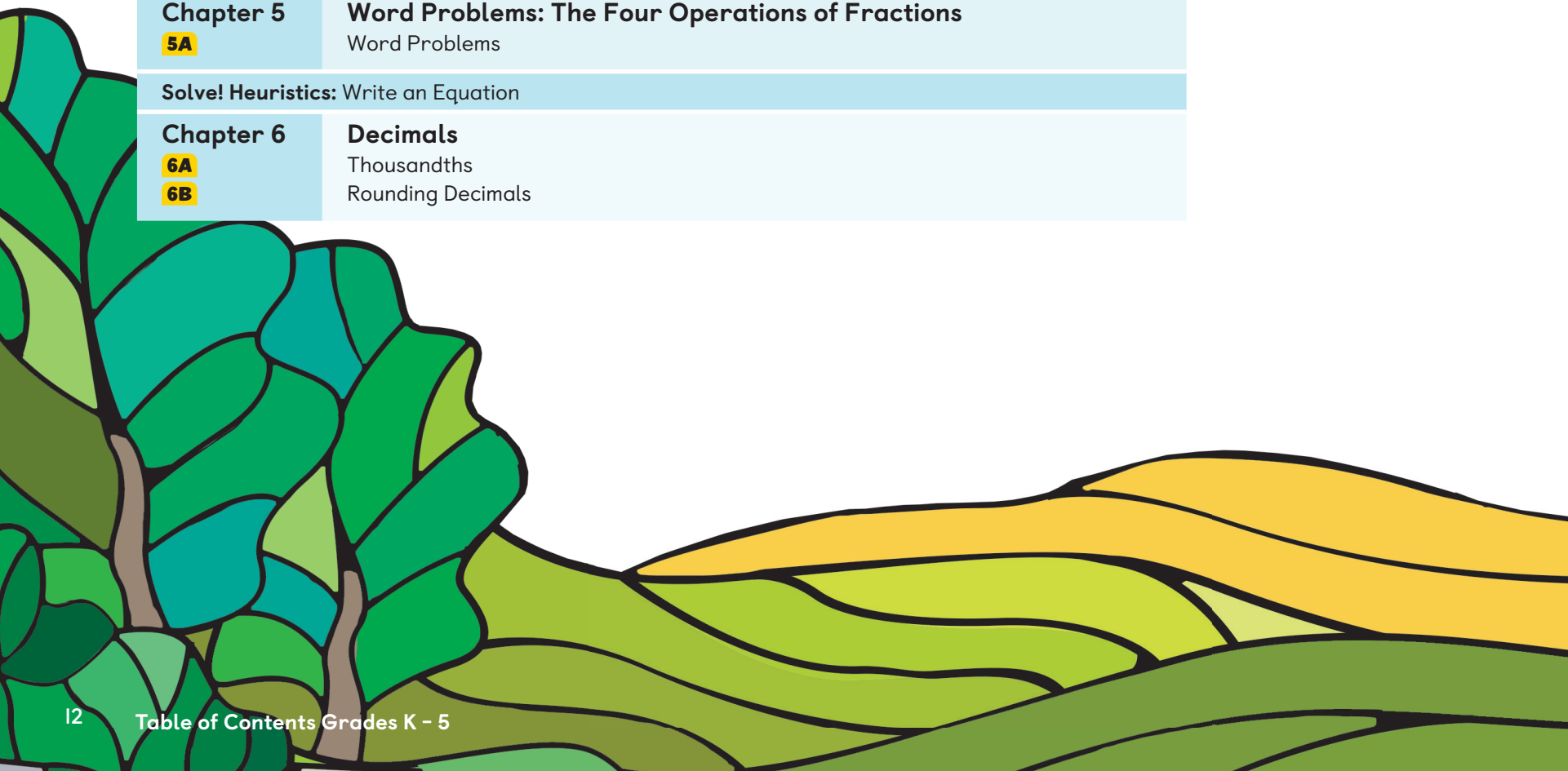
Word Problems

Solve! Heuristics: Guess and Check



Grade 5 – Table of Contents

BOOK A	
Chapter 1	Multi-Digit Whole Numbers
1A	Numbers to 10 Million
1B	Multiply by Tens, Hundreds, and Thousands
1C	Divide by Tens, Hundreds, and Thousands
Chapter 2	The Four Operations with Whole Numbers
2A	Order of Operations
2B	Multiply by a 2-Digit Number Fluently
2C	Word Problems: Multiplying by a 2-Digit Number
2D	Divide by Tens
2E	Divide by a 2-Digit Number
2F	Word Problems: Dividing by a 2-Digit Number
2G	Word Problems
Solve! Heuristics: Restate the Problem	
Chapter 3	Addition and Subtraction of Fractions
3A	Add and Subtract Unlike Fractions
3B	Add and Subtract Mixed Numbers
3C	Word Problems
Chapter 4	Multiplication and Division of Fractions
4A	Product of Fractions and Whole Numbers
4B	Product of Fractions
4C	Product of Mixed Numbers
4D	Fractions as Division
4E	Divide a Fraction by a Whole Number
4F	Divide a Whole Number by a Unit Fraction
Solve! Heuristics: Look for a Pattern	
Chapter 5	Word Problems: The Four Operations of Fractions
5A	Word Problems
Solve! Heuristics: Write an Equation	
Chapter 6	Decimals
6A	Thousandths
6B	Rounding Decimals



BOOK B

Chapter 7 The Four Operations of Decimals

- 7A** Addition and Subtraction of Decimals
- 7B** Multiplication of Decimals
- 7C** Division of Decimals
- 7D** Conversion of Measurement Units

Solve! Heuristics: Use Before-After Concept

Chapter 8 Word Problems: The Four Operations of Decimals

- 8A** Word Problems

Solve! Heuristics: Make a Supposition

Chapter 9 Volume

- 9A** Measure and Compare Volumes
- 9B** Volume of Rectangular Prisms
- 9C** Volume of Composite Solids
- 9D** Word Problems: Volume of Solids

Solve! Heuristics: Guess and Check

Chapter 10 Properties and Classification of 2-D Shapes

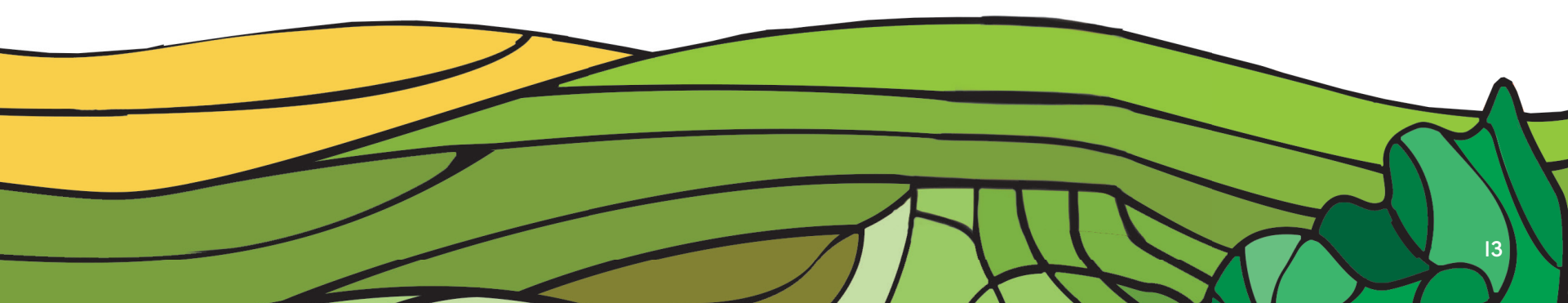
- 10A** Properties and Classification of Triangles
- 10B** Properties and Classification of Quadrilaterals

Chapter 11 Line Plots and the Coordinate Plane

- 11A** Line Plots
- 11B** The Coordinate Plane
- 11C** Line Graphs

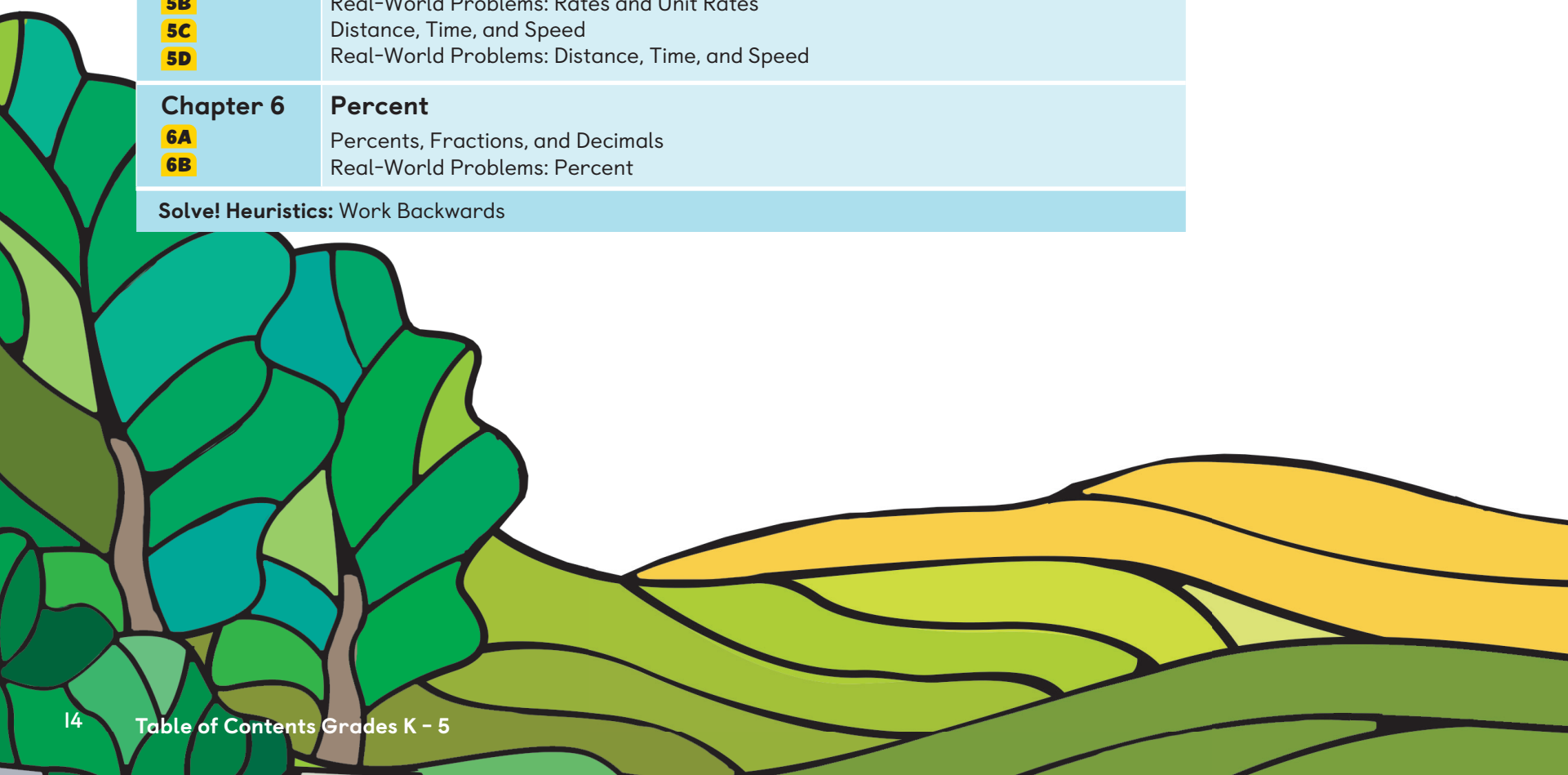
Chapter 12 Number Patterns and Relationships

- 12A** Number Patterns and Relationships



Grade 6 – Table of Contents

BOOK A	
Chapter 1	Exponential Notation and Prime Factorization
1A	Exponential Notation
1B	Prime Factorization
1C	Greatest Common Factor
1D	Least Common Multiple
Solve! Heuristics: Look for a Pattern	
Chapter 2	Fractions and Decimals
2A	Divide by a Fraction
2B	Real-World Problems: Four Operations of Fractions
2C	Four Operations of Multi-Digit Decimals
Solve! Heuristics: Elimination	
Chapter 3	Rational Numbers
3A	Rational Numbers on a Number Line
3B	Compare and Order Rational Numbers
3C	Absolute Values
Chapter 4	Ratio
4A	Introducing Ratios
4B	Equivalent Ratios
4C	Real-World Problems: Ratios Involving Two Quantities
4D	Comparing Three Quantities
4E	Real-World Problems Involving Three Quantities
4F	Ratios and Fractions
4G	Changing Ratios
Chapter 5	Rates and Constant Speed
5A	Rates and Unit Rates
5B	Real-World Problems: Rates and Unit Rates
5C	Distance, Time, and Speed
5D	Real-World Problems: Distance, Time, and Speed
Chapter 6	Percent
6A	Percents, Fractions, and Decimals
6B	Real-World Problems: Percent
Solve! Heuristics: Work Backwards	



BOOK B

Chapter 7

Algebraic Expressions

7A

Read and Write Algebraic Expressions

7B

Simplify Algebraic Expressions

7C

Evaluate Algebraic Expressions

7D

Real-World Problems: Algebraic Expressions

Solve! Heuristics: Use of Algebraic Expressions

Chapter 8

Equations and Inequalities

8A

Algebraic Equations

8B

Solve Algebraic Equations by Adding or Subtracting

8C

Real-World Problems: Solve Algebraic Equations by Adding or Subtracting

8D

Solve Algebraic Equations by Multiplying or Dividing

8E

Real-World Problems: Solve Algebraic Equations by Multiplying or Dividing

8F

Solve Algebraic Equations Involving Rational Numbers

8G

Real-World Problems: Solve Algebraic Equations Using the Four Operations

8H

Linear Equations

8I

Real-World Problems: Linear Equations

8J

Simple Inequalities

Solve! Heuristics: Using an Equation

Chapter 9

Area of Polygons

9A

Area of Parallelograms

9B

Area of Triangles

9C

Area of Trapezoids

9D

Area of Other Polygons

Chapter 10

The Coordinate Plane

10A

Points on the Coordinate Plane

10B

Distance and Area on the Coordinate Plane

10C

Real-World Problems: Polygons

Chapter 11

Volume and Surface Area

11A

Volume

11B

Real-World Problems: Volume

11C

Solids, Nets, and Surface Area

11D

Real-World Problems: Volume, Nets, and Surface Area

Chapter 12

Statistics

12A

Data Collection and Data Displays

12B

Center of Distribution

12C

Variability of Distribution

13D

Box Plots

