

**MODULE 1**

1.1	Reviewing the Relationship Between Decimal and Common Fractions	8
1.2	Regrouping Tenths, Hundredths and Thousandths	10
1.3	Reading and Writing Decimals	12
1.4	Rounding Thousandths	14
1.5	Rounding Decimal Fractions	16
1.6	Adding Tenths	18
1.7	Adding Hundredths	20
1.8	Adding Tenths and Hundredths	22
1.9	Solving Word Problems Involving Decimal Fractions	24
1.10	Revising the Partial-Products Strategy for Multiplication	26
1.11	Revising the Formal Algorithm for Multiplication	28
1.12	Extending the Formal Algorithm to Multiply Two-Digit Numbers by Four-Digit Numbers	30

**MODULE 2**

2.1	Using Mental Strategies to Add and Subtract Whole Numbers	32
2.2	Adding and Subtracting Four- and Five-Digit Whole Numbers	34
2.3	Adding Decimal Fractions	36
2.4	Adding Decimal Fractions (with Regrouping)	38
2.5	Using the Formal Algorithm to Add Two Decimal Fractions	40
2.6	Using a Compensation Strategy to Add Dollars and Cents	42
2.7	Using a Written Method to Add More Than Two Decimal Fractions	44
2.8	Estimating Total Cost	46
2.9	Solving Addition Problems Involving Decimal Fractions	48
2.10	Interpreting Information in Timetables	50
2.11	Using a Timetable Involving 24-Hour Time	52
2.12	Calculating Elapsed Time	54

**MODULE 3**

3.1	Multiplying Decimal Fractions (Tenths)	56
3.2	Using a Partial-Products Strategy to Multiply Decimal Fractions (Tenths)	58
3.3	Multiplying Decimal Fractions (Hundredths)	60
3.4	Using a Partial-Products Strategy to Multiply Decimal Fractions (Hundredths)	62
3.5	Multiplying Whole Numbers and Decimal Fractions (Hundredths)	64
3.6	Identifying Prime and Composite Numbers	66
3.7	Investigating Square Numbers	68
3.8	Investigating Oblong Numbers	70
3.9	Investigating Triangular Numbers	72
3.10	Creating and Interpreting Two-Way Tables	74
3.11	Interpreting Side-by-Side Column Graphs	76
3.12	Comparing Different Displays of the Same Data	78

**MODULE 4**

4.1	Subtracting Decimal Fractions (Tenths or Hundredths)	80
4.2	Subtracting Decimal Fractions (Tenths and Hundredths)	82
4.3	Using Written Methods to Subtract Decimal Fractions	84
4.4	Subtracting Decimal Fractions Involving Tenths (Decomposing Ones)	86
4.5	Subtracting Decimal Fractions Involving Hundredths (Decomposing Tenths)	88
4.6	Subtracting Decimal Fractions (Decomposing Multiple Places)	90
4.7	Consolidating Strategies to Subtract Decimal Fractions	92
4.8	Calculating Change	94
4.9	Exploring the Relationship Between Kilograms and Grams	96
4.10	Converting Between Grams and Kilograms	98
4.11	Working with Thousandths of a Kilogram	100
4.12	Solving Multi-Step Word Problems Involving Conversions of Mass	102

**MODULE 5**

5.1	Introducing Integers	104
5.2	Working with Integers	106
5.3	Solving Problems Involving Integers	108
5.4	Revising Partitioning to Divide Mentally	110
5.5	Extending Partitioning to Divide Mentally	112
5.6	Using the Formal Division Algorithm (Dividing Before Regrouping)	114
5.7	Using the Formal Division Algorithm (Regrouping Before Dividing)	116
5.8	Solving Division Problems Involving Remainders	118
5.9	Solving Division Problems	120
5.10	Exploring the Relationship Between Metres and Millimetres	122
5.11	Exploring the Relationship Between Metres, Centimetres and Millimetres	124
5.12	Solving Word Problems Involving Length	126

**MODULE 6**

6.1	Identifying and Describing Geometric Patterns	128
6.2	Identifying and Describing Number Patterns	130
6.3	Identifying Relationships Between Two Numerical Patterns	132
6.4	Creating Number Patterns Involving Decimal Fractions and Common Fractions	134
6.5	Using Mental Strategies to Multiply Two-Digit Numbers	136
6.6	Comparing Mental Strategies for Multiplication	138
6.7	Using a Double-and-Halve Strategy to Multiply Dollars and Cents	140
6.8	Using Multiplication Strategies with Decimal Fractions	142
6.9	Estimating and Measuring Angles	144
6.10	Examining Angles Around a Point	146
6.11	Exploring Angles in Right Angles and on Straight Lines	148
6.12	Investigating Vertically Opposite Angles	150

<b>MODULE 7</b>		
7.1	Identifying Equivalent Fractions	152
7.2	Using Multiplication to Find Equivalent Fractions	154
7.3	Reinforcing Mental Strategies for Finding Equivalent Fractions	156
7.4	Writing Common Fractions in Their Simplest Form	158
7.5	Comparing Common Fractions (Related Denominators)	160
7.6	Ordering Common Fractions (Related Denominators)	162
7.7	Identifying Misleading Data	164
7.8	Investigating Misleading Data	166
7.9	Exploring the Connection Between Perimeter and Area	168
7.10	Relating Perimeter and Area	170
7.11	Investigating Area of Right Triangles	172
7.12	Developing a Rule to Calculate Area of Triangles	174
<b>MODULE 8</b>		
8.1	Using Partial Quotients with Decimal Fractions	176
8.2	Extending the Partial-Quotients Strategy with Decimal Fractions	178
8.3	Solving Division Problems Involving Dollars and Cents	180
8.4	Calculating Unit Costs (Whole Dollars)	182
8.5	Calculating Unit Costs (Dollars and Cents)	184
8.6	Working with Speed (Kilometres per Hour)	186
8.7	Multiplying and Dividing by 10, 100 and 1000	188
8.8	Comparing Multiplication and Division Involving Decimal Fractions	190
8.9	Analysing Diagonals of 2D Shapes	192
8.10	Identifying Parts of a Circle	194
8.11	Interpreting a Timeline and Working with Elapsed Time	196
8.12	Drawing and Interpreting a Timeline	198
<b>MODULE 9</b>		
9.1	Converting Mixed Numerals to Improper Fractions	200
9.2	Converting Improper Fractions to Mixed Numerals	202
9.3	Revising Addition of Common Fractions (Same Denominators)	204
9.4	Adding Common Fractions (Related Denominators)	206
9.5	Adding Mixed Numerals (with Bridging)	208
9.6	Adding Mixed Numerals (Related Denominators)	210
9.7	Converting Between Centimetres and Metres	212
9.8	Converting Between Millimetres and Centimetres	214
9.9	Converting Between Millimetres and Metres	216
9.10	Converting Between Metres and Kilometres	218
9.11	Developing a Formula to Calculate Volume of Prisms	220
9.12	Finding the Dimensions of Prisms with a Given Volume	222

<b>MODULE 10</b>		
10.1	Introducing and Interpreting Percentage as Hundredths of One	224
10.2	Interpreting Percentage as an Amount Per Hundred	226
10.3	Relating Percentage to Common Fractions and Decimal Fractions (Area Model)	228
10.4	Relating Percentage to Common Fractions and Decimal Fractions (Linear Model)	230
10.5	Using Common Fractions, Decimal Fractions and Percentages in Everyday Contexts	232
10.6	Relating Fractions and Percentages Greater Than 100%	234
10.7	Working with Reflections	236
10.8	Working with Multiple Transformations	238
10.9	Exploring Tessellations	240
10.10	Working with Units of Capacity	242
10.11	Adding Mixed Units of Capacity	244
10.12	Connecting Volume and Capacity	246
<b>MODULE 11</b>		
11.1	Subtracting Common Fractions (Same Denominators)	248
11.2	Subtracting Common Fractions (Unrelated Denominators)	250
11.3	Subtracting Mixed Numerals (Same Denominators)	252
11.4	Subtracting Mixed Numerals (Related Denominators)	254
11.5	Finding a Unit Fraction of a Quantity	256
11.6	Finding Simple Fractions of Quantities	258
11.7	Working with Fractions of Money	260
11.8	Working with Percentages of Money	262
11.9	Using Percentage to Find Discounts	264
11.10	Applying Discounts to Calculate Selling Price	266
11.11	Examining Nets	268
11.12	Creating Nets	270
<b>MODULE 12</b>		
12.1	Investigating Order with One Operation	272
12.2	Investigating Order with Multiple Operations	274
12.3	Consolidating Order with Multiple Operations (without Parentheses)	276
12.4	Introducing Parentheses	278
12.5	Consolidating Order with Multiple Operations (with Parentheses)	280
12.6	Investigating Order with Multiple Grouping Symbols	282
12.7	Introducing Coordinates	284
12.8	Exploring the Coordinate Plane	286
12.9	Exploring Shapes on All Four Quadrants	288
12.10	Using Fractions to Describe Probabilities	290
12.11	Conducting Chance Experiments	292
12.12	Working with Probability	294