

Contents

| | | | |
|--|-----|--|----|
| Introduction | v | two numbers | 33 |
| Mathematics and Statistics in <i>The New Zealand Curriculum</i> | vi | Subtraction facts..... | 33 |
| Acknowledgements | vii | Adding numbers by finding tens | 35 |
| Number/Algebra | | Using compatible numbers | 36 |
| Writing numbers | 1 | Addition by splitting numbers to make tens | 37 |
| Place value | 2 | Addition by splitting numbers | 38 |
| Place-value blocks | 3 | Subtraction by splitting numbers | 39 |
| Ordering numbers | 4 | Subtracting bigger numbers by splitting..... | 40 |
| Estimating | 5 | Adding and subtracting bigger numbers | 41 |
| Identifying fractions | 6 | Adding and subtracting strategies with larger numbers | 42 |
| Naming fractions | 8 | Adding and subtracting using comparisons | 43 |
| Fractions as part of a group | 10 | The number of tens in whole numbers | 44 |
| Geometry/Measurement | | Addition with fractions..... | 45 |
| Lines | 11 | Statistics | |
| Horizontal and vertical Lines | 12 | Sorting data | 46 |
| Angles | 13 | Data display | 47 |
| Right angles | 14 | Opinion scales | 49 |
| Plane shapes | 15 | Comparing graphs | 50 |
| 2-dimensional shapes | 16 | Stem-and-leaf graphs | 52 |
| Quadrilaterals | 17 | Number/Algebra | |
| Shape fun | 18 | Patterns by repetition | 53 |
| Estimates | 19 | More patterns..... | 55 |
| Lengths | 20 | Patterns using turns | 56 |
| Longer lengths | 21 | Number patterns | 57 |
| Area | 22 | Rules for number sequences | 58 |
| Capacity | 23 | Sequences from spatial patterns..... | 59 |
| Larger capacities | 24 | Fun with sequences | 60 |
| Number/Algebra | | Relationship diagrams | 62 |
| Simple addition | 25 | Practical graphs | 63 |
| Simple subtraction..... | 26 | Geometry/Measurement | |
| Addition using number lines | 27 | Solids | 64 |
| Subtraction using number lines | 29 | Faces, edges and vertices of solids | 65 |
| Addition rules | 30 | Nets and solids | 66 |
| Basic addition facts | 31 | Prisms and pyramids | 67 |
| Using families of facts | 32 | | |
| Finding the difference between | | | |

| | |
|----------------------|----|
| Cross-sections | 68 |
| Volume | 69 |
| Mass | 70 |
| Temperature | 71 |
| Time on clocks | 72 |
| Timetables | 73 |
| Time | 74 |

Statistics

| | |
|--|----|
| Using graphs to record results | 75 |
| Interpreting data | 77 |
| Different graphs for the same data | 79 |

Geometry/Measurement

| | |
|--|----|
| Direction and distance | 81 |
| Compass directions | 83 |
| Clockwise and anticlockwise directions | 84 |
| Locus | 85 |
| Moving shapes | 86 |
| Symmetry | 87 |
| Lines of symmetry | 88 |
| Rotation | 89 |
| Rotational symmetry | 90 |

Number/Algebra

| | |
|--------------------------------|----|
| Multiplication | 91 |
| Multiples | 92 |
| Multiplication rules | 93 |
| Multiplication mania | 94 |
| Multiplying by 10 or 100 | 95 |

| | |
|--|-----|
| Multiplication using arrays I | 96 |
| Multiplication using arrays II | 97 |
| Multiplication using arrays III | 98 |
| Multiplication with a calculator | 99 |
| Division as repeated subtraction | 100 |
| Division as sharing | 101 |
| Division using working form | 102 |
| Families of multiplication and division facts | 103 |
| Division with remainders | 104 |
| Division using a calculator | 105 |
| Using all four operations | 106 |

Geometry/Measurement

| | |
|---------------------------|-----|
| Money | 107 |
| Giving change | 108 |
| Shopping and change | 109 |
| Mixture | 110 |

Number/Algebra

| | |
|------------------------------|-----|
| Equalities | 111 |
| Inequality symbols | 113 |
| Money and inequalities | 114 |
| Fun review | 115 |

Statistics

| | |
|----------------------------------|-----|
| Events | 116 |
| Probability | 117 |
| Comparisons of probability | 118 |
| Probability scales | 119 |

| | |
|----------------------|-----|
| Answers | 121 |
|----------------------|-----|

| | |
|--------------------|-----|
| Index | 141 |
|--------------------|-----|