

# BLOCK E

## Unit 1

100 Mental Maths Starters				100 Maths Lessons		
Page	Objective	Activity title	Starter type	Unit	Lesson	Page
72	Solve multi-step problems, and problems involving fractions, decimals and percentages; choose and use appropriate calculation strategies at each stage.	79 Five-second word problems	Rehearse	1	4	174
73	Solve multi-step problems, and problems involving fractions, decimals and percentages; choose and use appropriate calculation strategies at each stage.	80 Ten-second word problems	Rehearse	1	11	179
73	Use knowledge of place value and multiplication facts to $10 \times 10$ to derive related multiplication facts involving decimals.	81 Times tens	Refine	1	9	177
74	Use knowledge of place value and multiplication facts to $10 \times 10$ to derive related division facts involving decimals.	82 Divided by tens	Refine	1	10	178
74	Express a larger whole number as a fraction of a smaller one.	83 Pizza party	Rehearse	1	13	180
75	Order a set of fractions by converting them to fractions with a common denominator.	84 Happy families	Rehearse	1	14	181
75	Express a quotient as a fraction or decimal (eg $67 \div 5 = 13.4$ or $13\frac{2}{5}$ ).	85 Three ways	Rehearse	1	12	180
76	Solve problems involving direct proportion by scaling quantities up or down.	86 Quick-fire ratios	Reason	1	15	182

## Unit 2

100 Mental Maths Starters				100 Maths Lessons		
Page	Objective	Activity title	Starter type	Unit	Lesson	Page
76	Explain reasoning and conclusions, using words, symbols or diagrams as appropriate.	87 Sequence teasers	Reason	2	5	192
77	Simplify fractions by cancelling common factors.	88 Mixed number parts	Read	2	7	194
77	Simplify fractions by cancelling common factors.	89 Cancel down	Rehearse	2	8	195
78	Simplify fractions by cancelling common factors.	90 Bits of mixed numbers	Read	2	12	198

## Unit 2 ...continued

100 Mental Maths Starters				100 Maths Lessons		
Page	Objective	Activity title	Starter type	Unit	Lesson	Page
78	Express one quantity as a percentage of another; find equivalent percentages, decimals and fractions.	91 Percentage parts	Rehearse	2	11	197
79	Express one quantity as a percentage of another; find equivalent percentages, decimals and fractions.	92 Money percentages	Rehearse	2	13	198
79	Find fractions and percentages of whole-number quantities.	93 Pocket money	Rehearse	2	14	199
80	Relate fractions to multiplication and division.	94 Close relations	Refine	2	15	200

## Unit 3

100 Mental Maths Starters				100 Maths Lessons		
Page	Objective	Activity title	Starter type	Unit	Lesson	Page
81	Solve multi-step problems, and problems involving fractions, decimals and percentages; choose and use appropriate calculation strategies at each stage.	95 Percentage discounts	Rehearse	3	3	207
82	Solve multi-step problems, and problems involving fractions, decimals and percentages; choose and use appropriate calculation strategies at each stage.	96 10% off	Rehearse	3	5	209
83	Use knowledge of place value and multiplication facts to $10 \times 10$ to derive related multiplication and division facts involving decimals (eg $0.8 \times 7$ , $4.8 \div 6$ ).	97 Tenths and hundredths	Refine	3	6	210
84	Order a set of fractions by converting them to fractions with a common denominator.	98 Bigger or smaller?	Rehearse	3	13	215
84	Find equivalent percentages, decimals and fractions.	99 Make the set	Rehearse	3	11	213
85	Find equivalent percentages, decimals and fractions.	100 Change it!	Rehearse	3	12	214
86	Relate fractions to multiplication and division; find fractions and percentages of whole-number quantities.	101 Five-second percentages	Recall	3	14	215
87	Solve problems involving direct proportion by scaling quantities up or down.	102 Biscuit tin	Rehearse	3	15	216