Addition	Subtraction	Multiplication	Division
Mental methods	Mental methods	Mental methods	Sharing, grouping and using a number
These should continue to develop,	These should continue to develop,	Counting in multiples of 6, 7, 9, 25 and	line using decomposition
supported by a range of models and	supported by a range of models and	100, and steps of 1/10 and 1/100.	Children will continue to explore division
images, including the number line. Part-	images, including the number line. Part-	Recall multiplication facts for	as sharing and grouping on a number line
part-whole and bar models should	part-whole and bar models should	multiplication tables up to 12 × 12. Use	moving from partitioning to
continue to be used to help with	continue to be used to help with	these facts to solve problems mentally.	decomposition.
calculating.	calculating.		Concrete
Addition of numbers with up to 4-digits		Multiplication of 2 digit by a 1 digit using	Use a range of practical resources: place
using compact column addition	Subtraction of numbers with up to 4-	a formal written method (short	value counters, dienes blocks.
Concrete	digits using compact column subtraction	multiplication)	Pictorial
100s 10s 1s	Concrete	Concrete	
	234 – 188	Use place value counters to solve	Jottings
		calculations to model regrouping.	e.g. 840 ÷ 7 = 120 7 × 100 = 700 7 × 10 = 70
		<u>324 x 3 =</u>	100 groups 20 groups 7 x 20 = 140
			0 700 840
			Abstract
			840 ÷ 7 =
Pictorial	Pictorial		
	н т о		700 ÷ 7 = 100
•• •• • ••	20000000	Pictorial	140 ÷ 7 = <mark>20</mark>
		Represent using bar models, part-part	So. 840 ÷ 7 = 120
7 1 5 1		whole models and drawing counters.	
• •			Formal Written Methods
Abstract	1 88 188	972	Children should progress in their use of
494	Abstract	324 324 324	written division calculations:
+ 3 6 8			 Using tables facts with which they are
	$\frac{1}{2}$ $\frac{12}{3}$ $\frac{14}{4}$	324 x 3	fluent
862	-188		• Numbers should have no exchanging
1 1		Abstract	and regrouping initially until concept fully
nb – apply previous steps to decimals in the context		Expanded short multiplication (linking to	understood.
of money using coins and place value counters to	nb – apply previous steps to decimals in the context	grid method) moving towards the	• Experiencing a logical progression in the
support.	support	compact method.	numbers they use, for example: Dividend
	1 16	2 3 1 2 3	just over 10x the divisor. e.g. 84 ÷ 7
$+ \frac{L}{0} + \frac{4}{3} + \frac{3}{2} + \frac{1}{2} + $	£ 2 7 . ¹ 2 6	x 3 9 (3x3) X 6	All of the above stages should include
$\frac{t}{1}$ $\frac{3}{1}$ $\frac{3}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	- <u>£</u> 8.73	6 0 (20 x 3) 7 3 8	calculations with remainders as well as
	£18.53	6 9	without.
	1	l	

