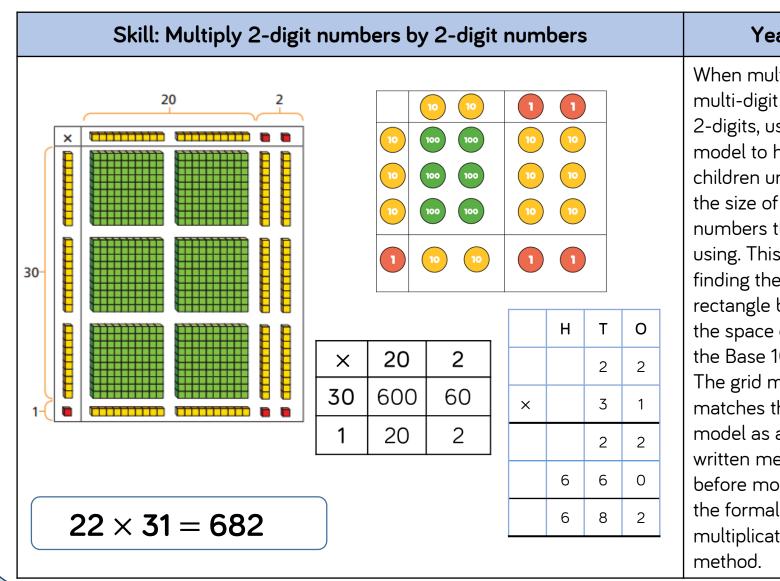


	Th	Н	Т	0
	1	8	2	6
×				3
	5	4	7	8
	2		1	

## Year: 5

When multiplying 4digit numbers, place value counters are the best manipulative to use to support children in their understanding of the formal written method. If children are multiplying larger numbers and struggling with their times tables, encourage the use of multiplication grids so children can focus on the use of the written method.

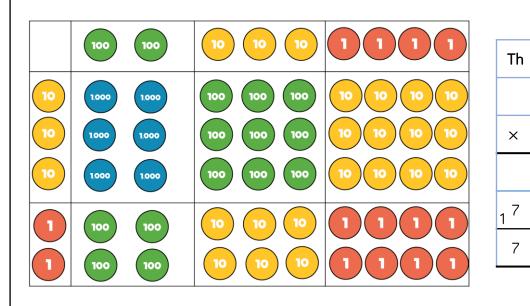


## Year: 5

When multiplying a multi-digit number by 2-digits, use the area model to help children understand the size of the numbers they are using. This links to finding the area of a rectangle by finding the space covered by the Base 10. The grid method matches the area model as an initial written method before moving on to the formal written multiplication

## Skill: Multiply 3-digit numbers by 2-digit numbers

## Year: 5



Children can continue
to use the area model
when multiplying 3-
digits by 2-digits.
Place value counters
become more
efficient to use but
Base 10 can be used
to highlight the size of
numbers.

Children should now move towards the formal written method, seeing the links with the grid method.

	×	200	30	4
	30	6,000	900	120
	2	400	60	8
')				

Η

2

4

0

4

Т

3

3

6

2

8

0

4

2

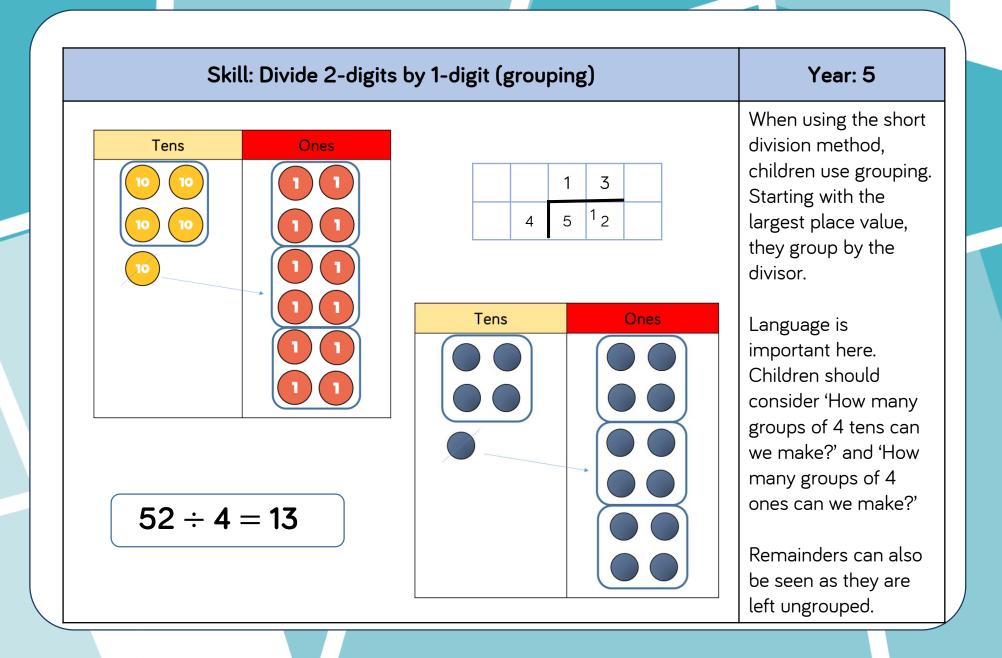
8

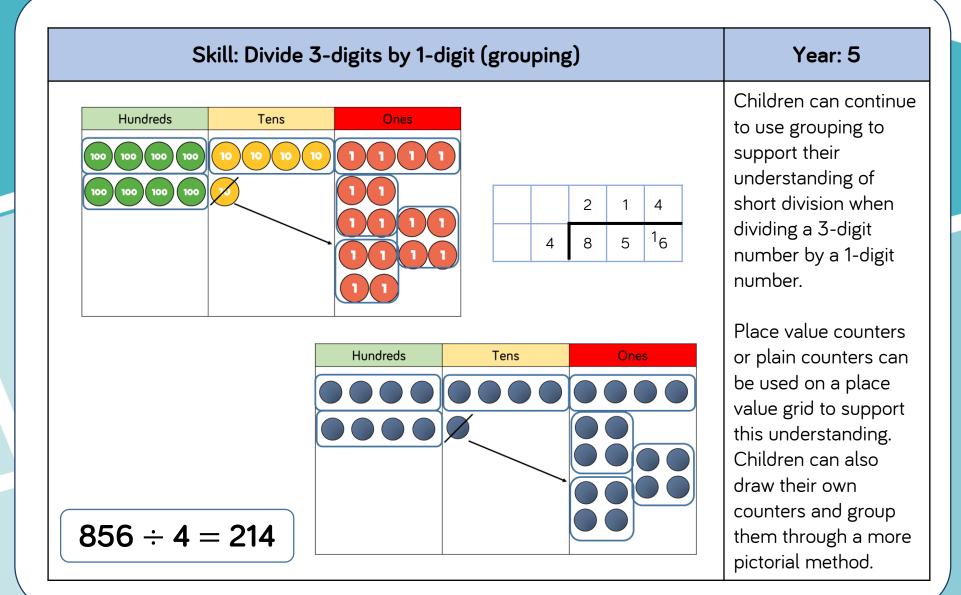
0

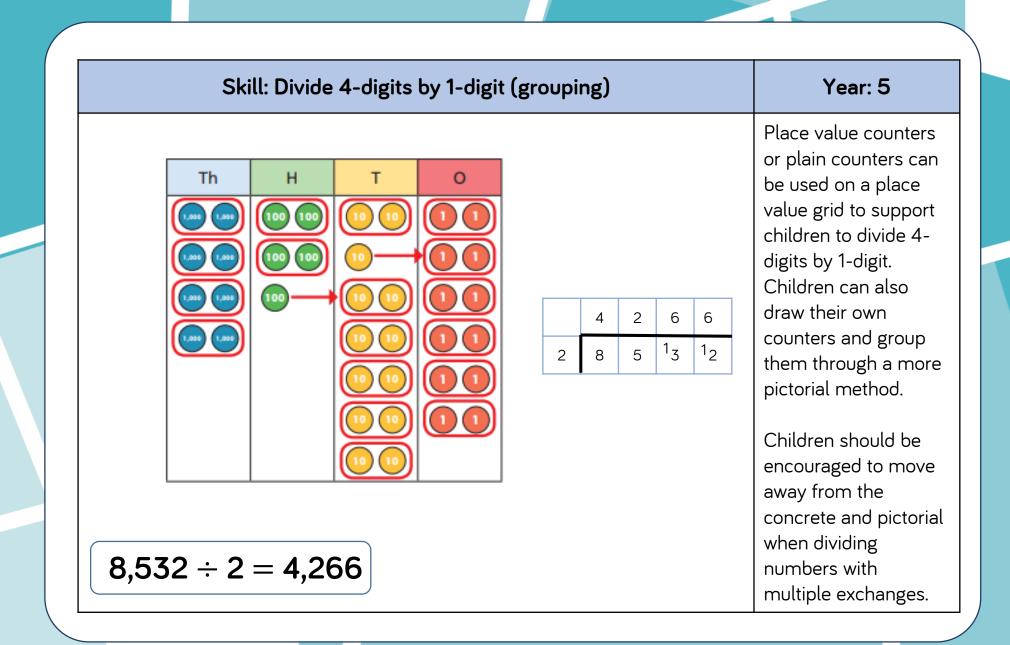
8

234 × 32 = 7,488

Skill: M	ultiply 4-di	Year: 5/6								
	TTh	Th	Н	Т	0		When multiplying 4- digits by 2-digits, children should be			
		2	7	3	9		confident in using the formal written method.			
	×			2	8		If they are still			
	2	1 5	9 3	1 7	2		struggling with times tables, provide			
	5	4	7 1	8	0		multiplication grids to support when they are focusing on the			
	7	6	6	9	2		use of the method.			
2,739 × 28	2,739 × 28 = 76,692									







Skil	gits (sł		Year: 6						
12	0	3 4 <sub>3</sub>	6 7 <sub>2</sub>		432	÷ 12	2 = 3	6	When children begin to divide up to 4- digits by 2-digits, written methods become the most accurate as concrete and pictorial 
					0	4	8	9	larger remainders.
7,335	÷ 15	= 4	89	15	7	73	13 <sub>3</sub>	<sup>13</sup> 5	Children will also solve problems with remainders where the
15 30	45	60	) 75	90	105	120	135	150	quotient can be rounded as

Skill: Divide multi-digits by 2-digits (long division)														Year: 6
1	2	0 4 3	3 3 6 7	6 2 0 2	(×30	$12 \times 4 = 40$ $12 \times 5 = 60$			43	52	••	12 =	= 36	Children can also divide by 2-digit numbers using long division.
	_		7	2	(×6)	$12 \times 6 = 72$ $12 \times 7 = 84$ $12 \times 8 = 96$ $12 \times 7 = 108$ $12 \times 10 = 120$						_		Children can write o multiples to support their calculations wit larger remainders.
								0	4	8	9		$1 \times 15 = 15$	
				15	7	3	3	5		$2 \times 15 = 30$	Children will also			
	7,335 ÷ 15 = 489		-	6	0	0	0	(×400	$3 \times 15 = 45$	solve problems with remainders where the				
		- 489		1	3	3	5	(	$4 \times 15 = 60$	quotient can be				
_							-	1	2	0	0 5	(×80)	$5 \times 15 = 75$	rounded as
							-		1	3	5 5	(×9)	$10 \times 15 = 150$	appropriate.
							_		1	5	0	(×9)		

Skill: Divide multi di	Year: 6									
372 ÷ 15 = 24 r12	1	5	3	2 7 0 7 6 1	4 2 0 2 0 2	r	1	2	$1 \times 15 = 15$ $2 \times 15 = 30$ $3 \times 15 = 45$ $4 \times 15 = 60$ $5 \times 15 = 75$ $10 \times 15 = 150$	When a remainder is left at the end of a calculation, children can either leave it as a remainder or convert it to a fraction. This will depend on the context of the question.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		3	572	2 ÷	- 1	5	_	24	$4\frac{4}{5}$	Children can also answer questions where the quotient needs to be rounded according to the context.