



## Calculation Policy Division September 2023





## **Division:**

EYFS:			
Vocabulary:	Odd Even Halve Share Share equally Equal groups of Divide	Manipulatives & scaffolds:	
Small step:	Concrete:	Pictorial:	Abstract:
Explore sharing	March 2024		
Sharing			
Explore grouping			
Grouping			
Even and odd sharing			
Y1			





Vocabulary:	Odd	Manipulatives & scaffolds:	Cubes
	Even		Counters
	Halve		
	Share		
	Share equally		
	Equal groups of		
	Divide		
	Divided by		

	Left over		
Small step:	Concrete:	Pictorial:	Abstract:
Make equal groups – grouping		There are equal groups of	There are altogether. There are equal groups of
Make equal groups – sharing		Share the apples equally between the 3 boxes.	are shared equally into groups. There are in each group.
Y2			





Vocabulary:	Odd	Manipulatives & scaffolds:	Counters
	Even	•	Number line
	Halve		Bar models
	Share		Part whole models
	Share equally		Part whole models
	Equal groups of		
	Divide		
	Divided by		
	Left over		
	÷		
Small step:	Concrete:	Pictorial:	Abstract:

Make equal groups – grouping		Complete the sentences. 12 is made up of equal groups of $12 \div 2 = \$	15 ÷ 5 =
Make equal groups – sharing	I have 12 cubes, can you share them equally into 3 groups?	e 20 20 + 4 = 5	÷=
Y3			





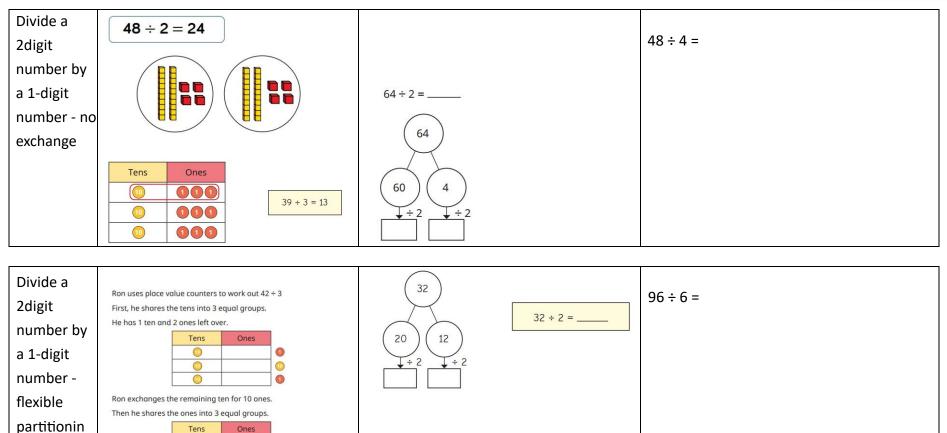
Vocabulary:	Odd	Manipulatives & scaffolds:	Counters
	Even	•	Lolly sticks
	Halve		Bar models
	Share		
	Share equally		Part whole models
	Equal groups of		Place value counters
	Divide		Place value charts
	Divided by		
	Left over		
	÷		
	Remainders		
	2-digit number		
	Partitioning		
	Flexible partitioning		

Small step:	Concrete:	Pictorial:	Abstract:
Sharing and	Here are 14 counters.		
grouping			27 ÷ 3 =
	<ul> <li>Share the counters equally into 2 groups.</li> <li>Complete the sentences.</li> <li>There are counters altogether.</li> </ul>	20 pencils are shared equally between 5 people.	
	There are groups. There are counters in each group. 14 ÷ =	20 pencils are grouped into packs of 5	



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÷3=14





Divide a 2digit number by a 1-digit number - with remainders	Esther has 13 lolly sticks. She uses them to make squares. Complete the sentences. There are lolly sticks. There are groups of 4 There is lolly stick remaining. 13 + 4 = remainder Esther can make squares.	$53 \div 4 =$ $53 \div 4 = \text{excharge 1 tern}$ $\overline{53 \div 4} = \text{excharge 1 tern}$ $\overline{10 \text{ ones}}$ $\overline{13 \text{ r}}$ $13 \text{ r}$ $13 \text{ r}$ $10 \text{ s}$	38 ÷ 3 = 12 r 2
Y4			
Vocabulary:	Odd Even Halve	Manipulatives & scaffolds:	Part whole models Place value counters Place value charts

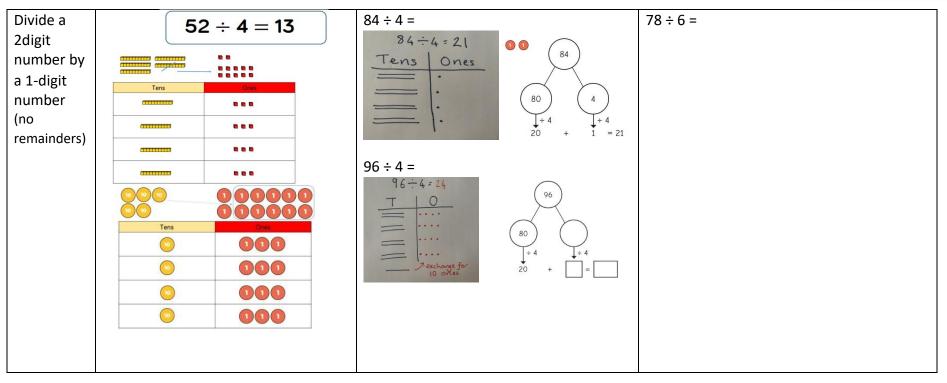




Small step:	Concrete:	Pictorial:	Abstract:
	Flexible partitioning		
	Partitioning		
	2-digit number		
	Remainders		
	÷		
	Left over		
	Divided by		
	Divide		
	Equal groups of		
	Share equally		
	Share		

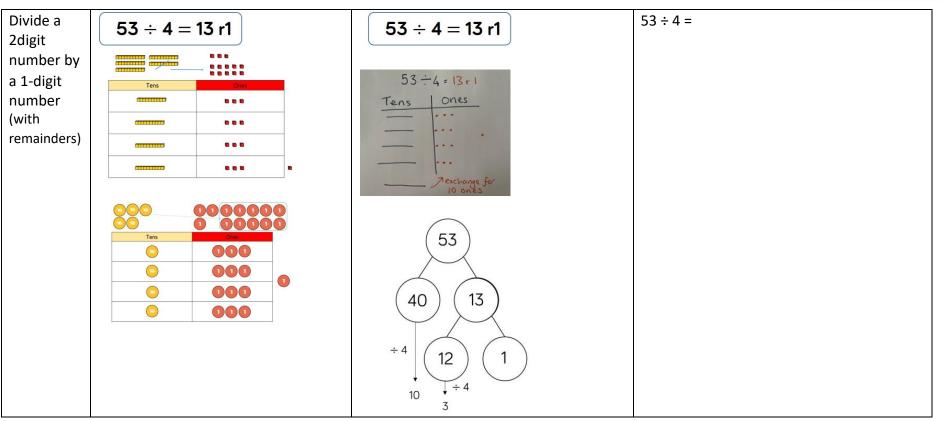












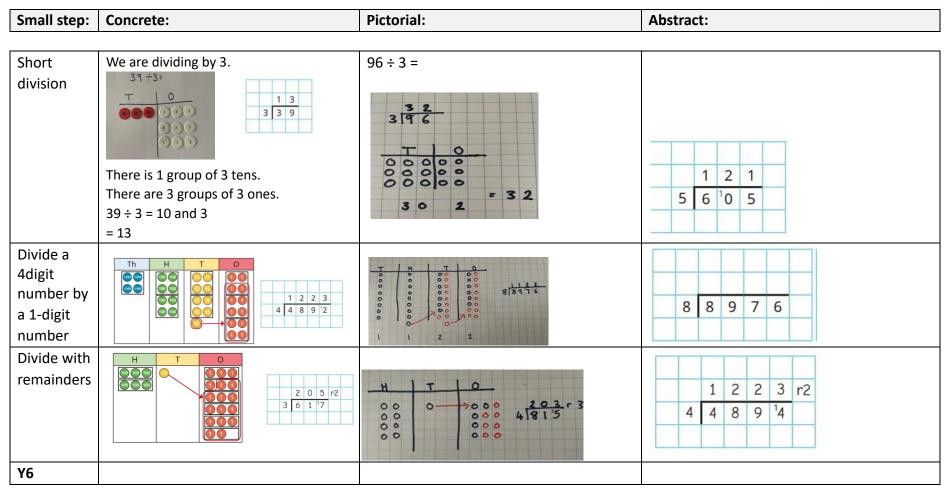




Divide a	639÷3=	646÷2=323	428 ÷ 2 =
3digit	Hundreds Tens Ones	H T 0 000 00 000	
number by		000 00 000	
a 1-digit			
number			
		646	
		$\begin{pmatrix} 600 \end{pmatrix} \begin{pmatrix} 40 \end{pmatrix} \begin{pmatrix} 6 \end{pmatrix}$	
	435 ÷ 3 =		
	Hundreds Tens Ones	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
		300 20 3	
Y5			
Vocabulary:	Odd	Manipulatives & scaffolds:	Place value counters
	Even		Place value charts
	Halve		'Bus stop'
	Share		
	Share equally Equal groups of		
	Divide		
	Divided by		
	Left over		
	÷		
	Remainders		
	Partitioning		
	Flexible partitioning		
	2/3/4-digit number		
	Short division		











Vocabulary:	Odd	Manipulatives & scaffolds:	Place value counters
	Even	•	Place value charts
	Halve		'Bus stop'
	Share		Dus 3(0)
	Share equally		
	Equal groups of		
	Divide		
	Divided by		
	Left over		
	÷		

	Remainders 2/3/4-digit number Partitioning Flexible partitioning Short division Factors Long division		
Small step:	Concrete:	Pictorial:	Abstract:
Short	Th H T O		
division	2 1 3 1 2 4 8 5 12 4	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	4 5 3 2 2



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Division using factors		Esther is working out $840 \div 4$ She knows $840 \div 2 = 420$ 420 How can Esther use this fact to help find $840 \div 4?$	540 ÷ 20
Long division	When children begin to divide larger numbers, written methods become more efficient; concrete and pictorial methods are less effective		7,335 $\div$ 15 = 489         15       7       3       5         -       6       0       0       0         1       3       5       15 = 45         -       1       2       0       0         -       1       3       5         -       1       3       5         -       1       3       5         -       1       3       5         -       1       3       5         -       1       3       5         -       1       3       5         -       1       3       5         -       1       3       5         -       1       3       5         -       1       3       5         -       1       3       5         (x9)       10 × 15 = 150       10 × 15 = 150
Long division with remainders			Multiples of 15: $15 \times 1 = 15$ 15         3         7         2         15           3         0         0         15 \times 2 = 30         15 \times 3 = 45           -         7         2         15 \times 4 = 60         15 \times 4 = 60           -         1         2         1         15 \times 4 = 60

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