

Calculation Policy Division April 2024



Division:

EYFS:				
Vocabulary:	Fair Not fair Share Share equally Groups Equal groups of Divide Odd Even	Manipulatives & scaffolds:	Cubes Counters Plates Pots Real life objects such as cookies, strawberries, sn items	
Small step:	Concrete:	Pictorial:	Abstract:	
Explore sharing	Sharing involves dividing a set equally between a certain number of groups. Expose children to the concept of sharing into groups and begin to identify when these groups are equal. Is it fair? How do you know? Are the groups equal? Do all the groups have the same amount? How can we share the strawberries equally? What if we used 3 plates?		It is fair because It is not fair because The have/have not been shared equally	



Sharing	Share practically by having a number of objects to share between various people or groups by taking one object at a time and giving it to one child before taking the next object and giving it to the next child. Repeat this process until all the objects are gone or each child has an equal amount. Explore what happens if an amount cannot be shared equally by the number of children that we have.	The have/have not been shared equally. There are altogether They are shared equally between groups
Explore grouping	Grouping involves dividing a set by placing a certain number of items in each group. I have 12 pencils. I need 3 in each pot. How many pots will I need?	The groups are equal/not equal because There are groups of There are altogether
Grouping	Children will group for a purpose and divide a set of objects by placing a certain number of them in each group. There are 12 cubes. Divide the cubes into groups of 2.	There are altogether. The can be put into equal groups of There are groups of



	How many groups are there?		
Even and odd sharing	Children identify whether a number is odd or even by sharing into two groups. Using language such as 'odd', 'even', 'equal' and 'unequal' will prompt children to make the links to the number of objects they are sharing. In pairs, children select a numeral card and count out the corresponding number of counters. Is this an even or odd number? Encourage them to share the counters between the two of them. Do they have two equal groups or is there one counter left over?		There are altogether. I have an odd/even number of I know because
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Vocabulary:	Odd Even Halve Share Share equally Equal groups of Divide Divided by Left over	Manipulatives & scaffolds:	Cubes Counters
Small step:	Concrete:	Pictorial:	Abstract:



Make equal groups – grouping		There are altogether. 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 Even Halve Share Share equally Equal groups of Divide Divide by Left over ÷	Manipulatives & scaffolds:	Counters Number line Bar models Part whole models
Small step:	Concrete:	Pictorial:	Abstract:



Make equal groups – grouping		 Complete the sentences. 12 is made up of equal groups of 12 ÷ 2 = 	15 ÷ 5 =
Make equal groups – sharing	I have 12 cubes, can you share them equally into 3 groups?	20 20 $20 \div 4 = 5$	÷=
Y3 Vocabulary:	Odd Even Halve Share Share equally Equal groups of Divide Divide by Left over \div Remainders 2-digit number Partitioning Flexible partitioning	Manipulatives & scaffolds:	Counters Lolly sticks Bar models Part whole models Place value counters Place value charts











	Share Share equally Equal groups of Divide Divided by Left over ÷ Remainders 2-digit number Partitioning Flexible partitioning		
Small step:	Concrete:	Pictorial:	Abstract:
Divide a 2- digit number by a 1-digit number (no remainders)	$52 \div 4 = 13$	84 ÷ 4 = 34 ÷ 4 = 21 $7ens Ones$ 80 4 4 $96 ÷ 4 =$ $96 ÷ 4 =$ $96 ÷ 4 =$ $96 ÷ 4 = 24$ $7eccharge for$ 96 4 20 $+$ $=$	78 ÷ 6 =











Short division	$39 \div 3:$ $T = 0$ $1 = 3$ We are dividing by 3. There is 1 group of 3 tens. There are 3 groups of 3 ones. $39 \div 3 = 10 \text{ and } 3$ $= 13$	96÷3=	1 2 1 5 6 10 5 1 1 10 10 1 10 10 10 1 10 10 10 1 10 10 10 1 10 10 10 1 10 10 10
Divide a 4- digit number by a 1-digit number	T O O Image: Constraint of the state of	T H T Q 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 2 2	8 8 9 7 6
Divide with remainders	H T O C O O C O C	H T O 00 0 000 203 r 3 00 0 000 41815 00 00 000	4 4 8 9 4
Y6			
Vocabulary:	Odd Even Halve Share Share equally Equal groups of Divide Divide by Left over ÷	Manipulatives & scaffolds:	Place value counters Place value charts 'Bus stop'



	Remainders 2/3/4-digit number Partitioning Flexible partitioning Short division Factors Long division		
Small step:	Concrete:	Pictorial:	Abstract:
Short division	Th H T O C C C C C C C C C C C C C C C C C C C C C C <thc< th=""> C</thc<>	$\begin{array}{c ccccc} Th & H & T & O \\ \hline O & O & O & O & O \\ O & O & O & O & O \\ O & O &$	4 5 3 2 2
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 1 2 0



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Long				Multiples of 15: 15 × 1 = 15
division		15 3 7 2		15 × 2 = 30
with		3 0 0	(15 × 20)	15 × 3 = 45
romaindors		7 2 6 0	(15 × 4)	15 × 4 = 60
remainders		1 2	(10 1)	

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