

KS1 Division

In Key Stage One, pupils are taught division by sharing an amount between a given number. Children will use concrete and pictorial representations to show this. Pupils will also learn to halve numbers to 20 by sharing into 2 equal groups. Children will also recognise that not all numbers can be halved, therefore odd and even will be explored. Pupils later use knowledge of place value to halve the tens and ones separately for a 2 digit number.

Concrete



Sharing and grouping multilink cubes

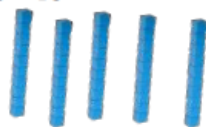


Sharing and grouping familiar classroom objects



Numicon to explore odd and even

$$50 \div 10 =$$

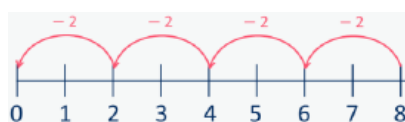


Creating groups of 10 to a target

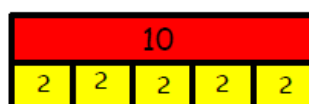
Pictorial



Share and group familiar objects



Number lines to show equal groups



Bar models to show equal groups

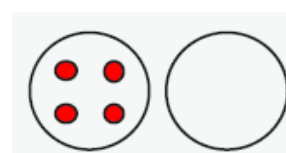


Drawing the number as a line to find half



Bar models - share 12 between 3

Abstract

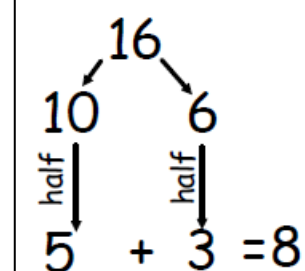


If 4 is half, what is the whole?



To find half, I need to share 14 into two equal groups

$$\text{Half of } 16 =$$



Partition the tens and ones

$$50 \div 10 = 5$$

Division written as a number sentence

Key language

I have 12 in total. If I share them between me and my friend, we will have 6 each.

12 shared between 4 is 3.

I can't share 11 equally because I have one left over. 11 must be an odd number.

I can share even numbers equally.

The divide symbol looks like this...

To halve 16, first I will half ten which is 5, then I will half 6 which is 3. I will add $5 + 3 = 8$.

To divide 50 by 10, I will count in jumps of 10 using my 10x tables.