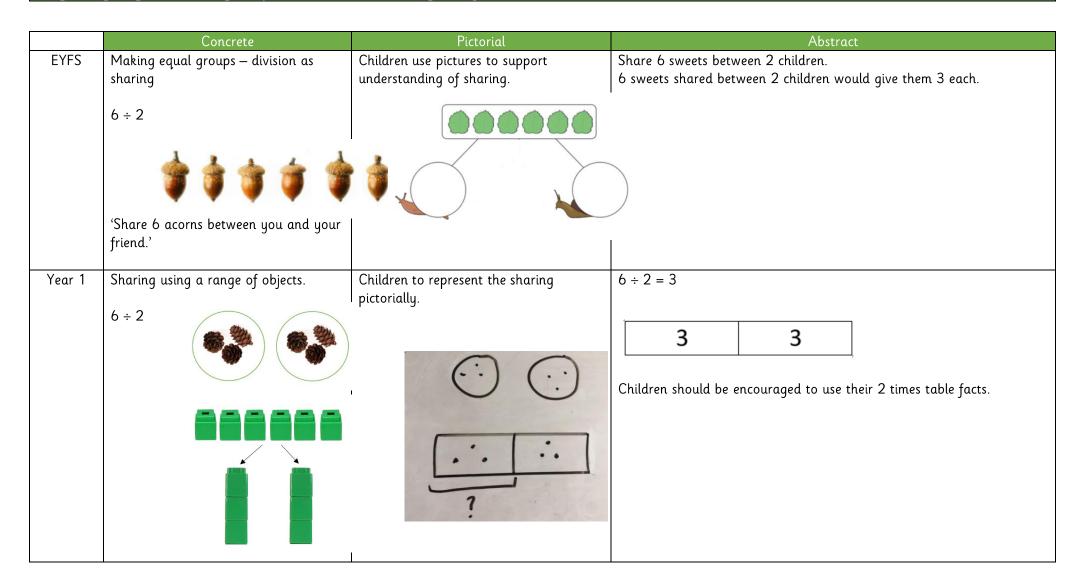


Calculation Policy: Division

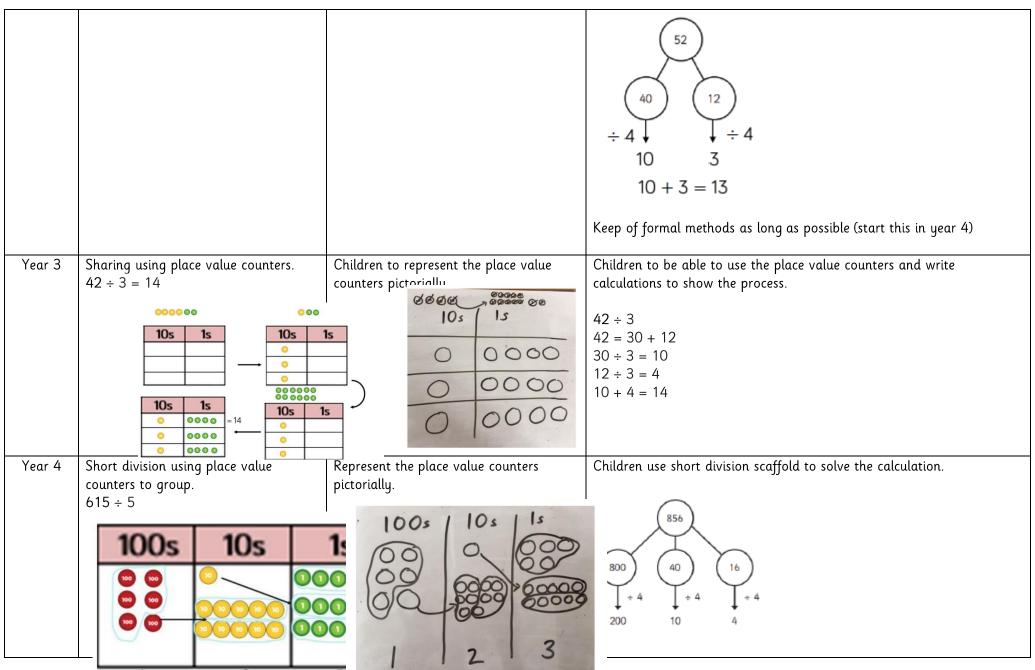
Key language: share, group, divide, divided by, half





Year 1/2	Use arrays to show link to multiplication. 6 ÷ 2	Children to represent the arrays pictorally.	Children to be able to use an array to write a range of calculations. $6 \div 2 = 3$ $6 \div 3 = 2$ $2 \times 3 = 6$ $3 \times 2 = 6$
Year 2	2 digit ÷ 1 digit with remainders using sticks. 13 ÷ 4 Use sticks to form wholes — squares are made because we are dividing by 4. There are 3 whole squares, with 1 left over.	Children to represent the sticks pictorially.	Children should be encouraged to use their times table facts. They could represent repeated addition on a number line.
Year 3 new	Use base 10		

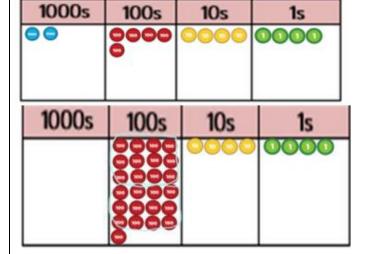






123 5 6¹1⁵

Year 5 Long division using place value counters. 2544 ÷ 12



We can't group 2 thousands into groups of 12 so will exchange them.

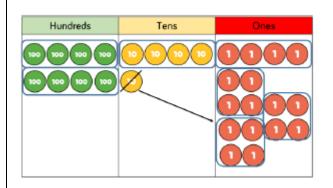
We can group 24 hundreds into groups of 12 which leaves with 1 hundred.

$$\begin{array}{r}
 02 \\
 \hline
 12 2544 \\
 \underline{24} \\
 1
 \end{array}$$

School decision – do we teach long division or not? (probably wouldn't teach the long division in year 5)

Would do the same as pictorial in year 4





	4	2	6	6
2	8	5	13	12

1000s	100s	10s	1s
	0000 0000 0000 0000 0000	0000	0000

After exchanging the hundred, we have 14 tens. We can group 12 tens into a group of 12, which leaves 2 tens.

1s	10s	100s	1000s
0000 0000 0000 0000	0000	0000	
	0000	5000 0000 0000	

After exchanging the 2 tens, we have 24 ones. We can group 24 ones into 2 group of 12, which leaves no remainder.

12 2544

24

24

24

Year 6

Really need to understand division as grouping before getting onto this point. The column method is easier and neater – children may undertsand this better.



