

Maths Equipment

In this guide we use a place value chart, place value counters and a mini whiteboard.

If you don't have these you could:

- · draw a place value chart on poster paper or the back of a cereal box
- · make your own place value counters using
- · use other objects such as dried pasta or small toys.

Place value chart

Hundreds	Tens	Ones	l

10 x hundred counters



20 x ten counters



20 x one counters

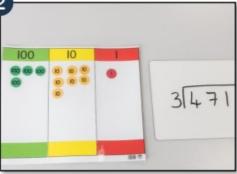








We are going to divide 471 by 3 using place value counters and a place value grid to help us.

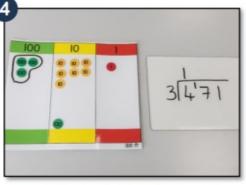


First build the number 471 on a place value grid and record the calculation as a short division on a whiteboard or piece of paper.

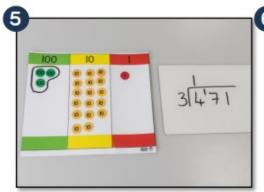


Ask "How many groups of 3 hundreds are there in 4 hundred?"

They should be able to tell you that there is 1 group of 3 hundreds and there is 1 hundred left over.



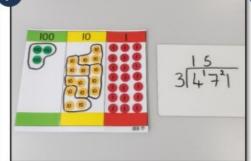
Show this in the place value grid and in the calculation. There aren't any more groups of 3 hundreds so the remaining hundred counter is placed in the tens column.



Ask "How many tens can we exchange 1 hundred for?" 1 hundred is equal to 10 tens so replace the hundred counter with 10 tens.

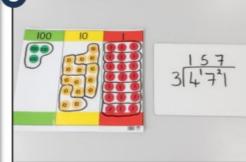


Ask "How many groups of 3 tens are there in 17 tens?" There are 5 groups of 3 tens and 2 tens left over. These tens are placed in the ones column.



Ask "How many ones can we exchange each ten for?"

1 ten is equal to 10 ones so we can exchange 2 tens for 20 ones.



Ask "How many groups of 3 ones are there in 21 ones?" There are 7 groups of 3 ones in 21 ones and no ones left over.

471 divided by 3 is equal to 157

Now Try These

 $456 \div 3$

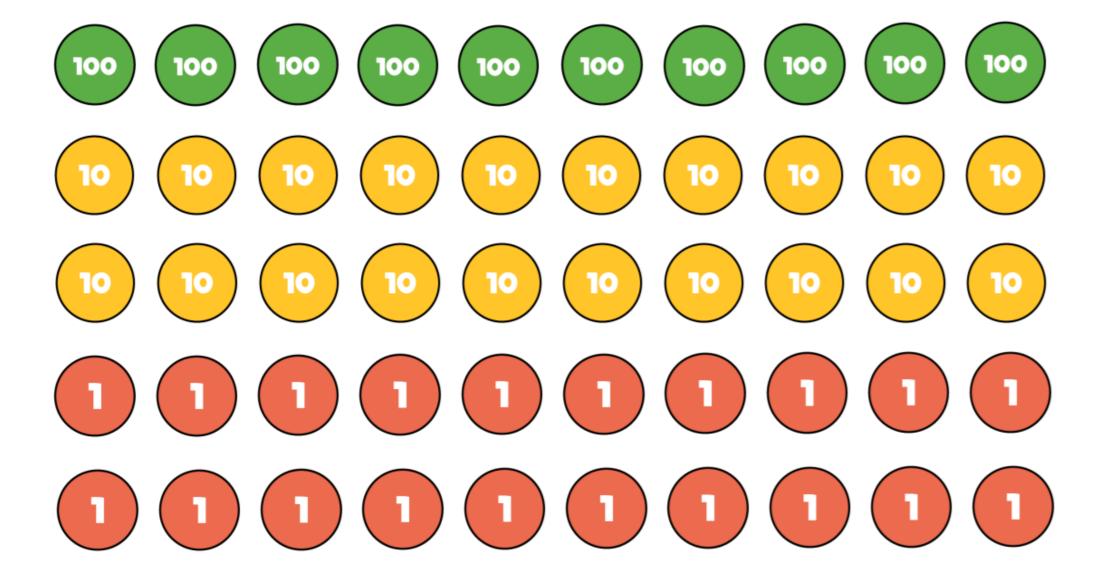
 $856 \div 4$

 $665 \div 5$

 $801 \div 3$



Printouts - Place Value Counters



Printouts - Place Value Chart

Hundreds	Tens	Ones