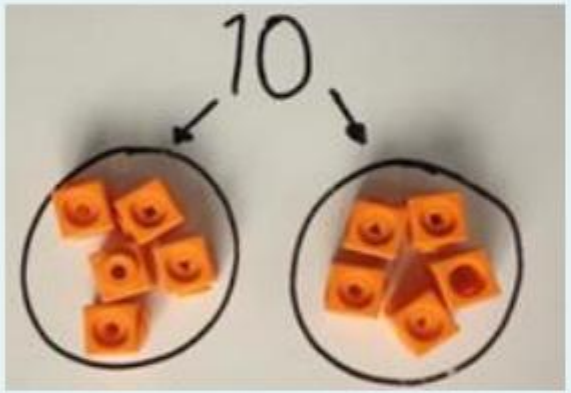
Division across the school

EYFS and Year 1

Early Division

Sharing

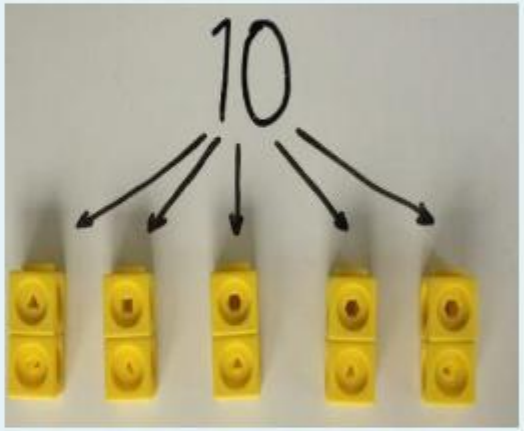


Share 10 cubes between 2 people

Starting with 10 and sharing between 2.

$10 \div 2 = 5$

Grouping

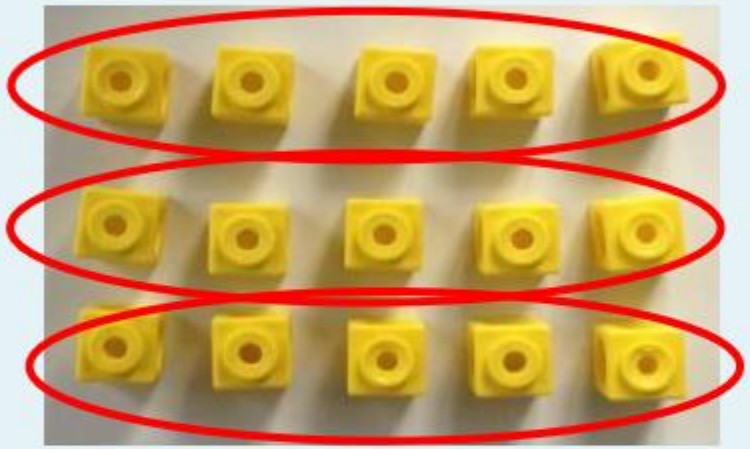


How many **groups of** 2 are in 10?

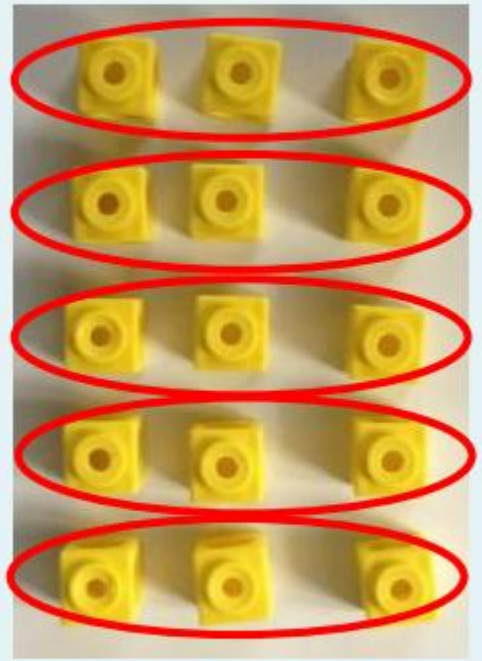
Starting with 10 and removing groups of 2.

Linking to multiplication (Y2)

3 x 5 = 15



5 x 3 = 15

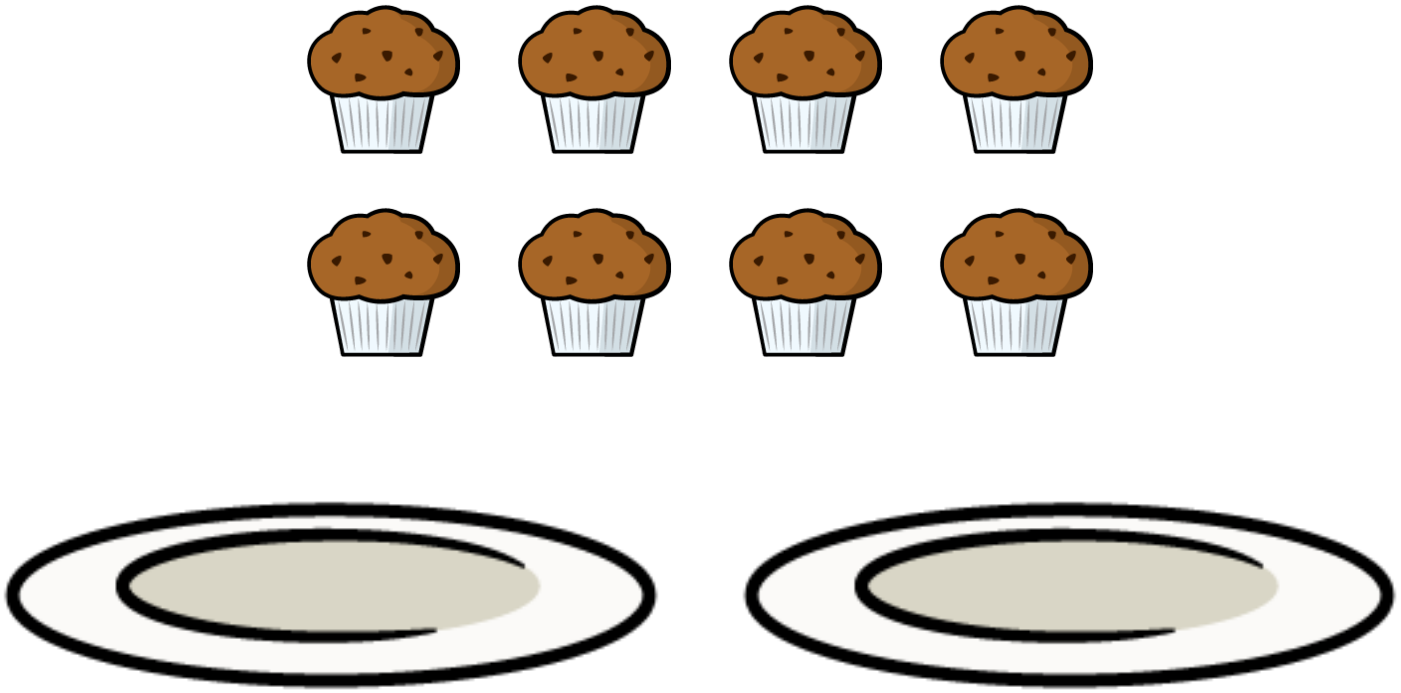


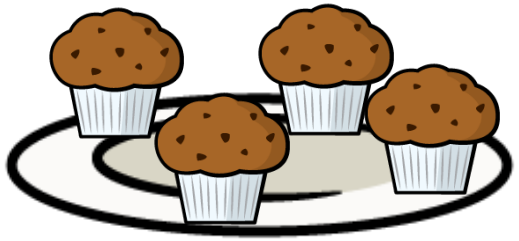
15 ÷ 5 = 3

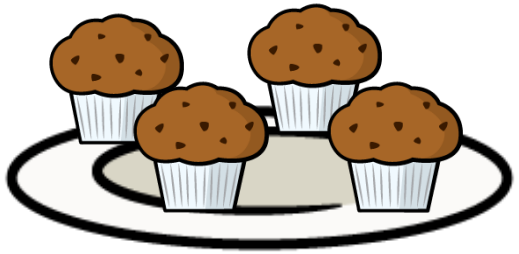
15 ÷ 3 = 5

"Division is the inverse of multiplication."

Share the muffins equally between 2 groups.





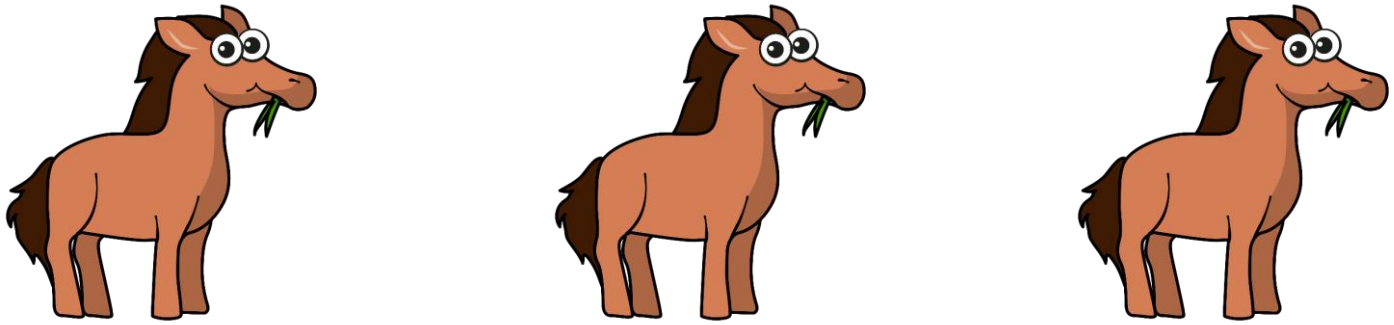


There are 8 muffins.

They are shared equally between 2 plates.

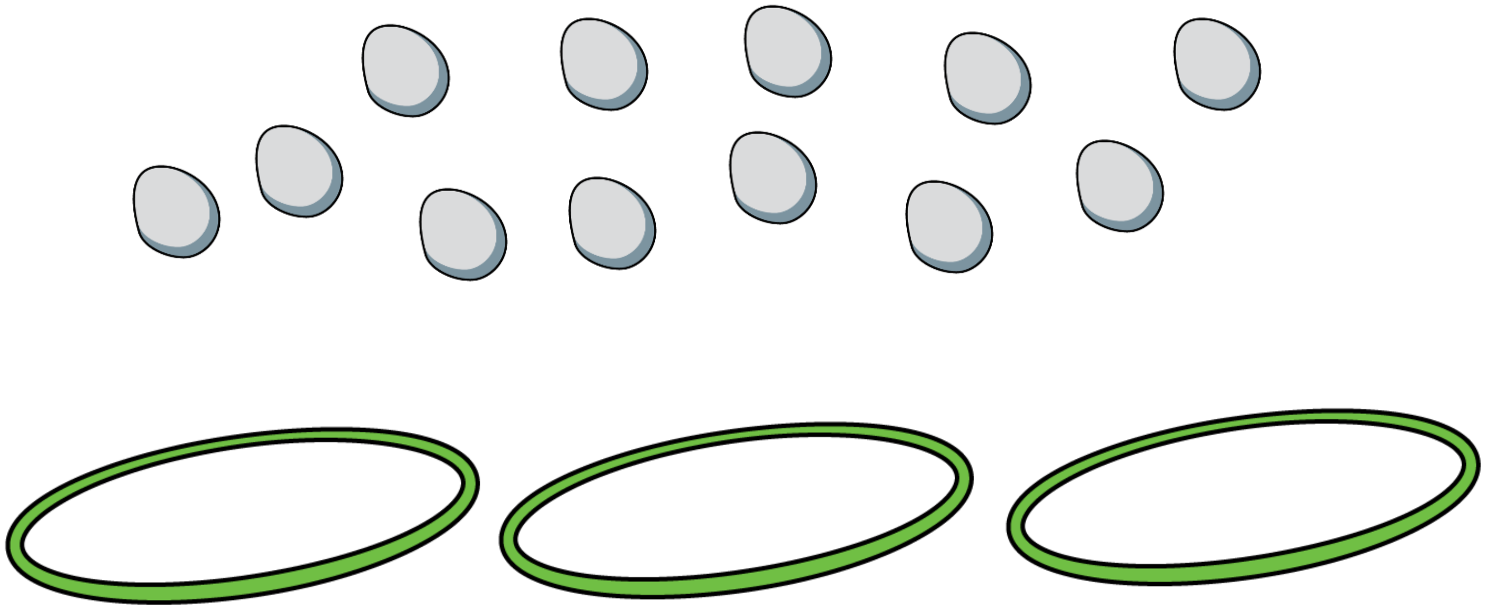
There are 4 muffins on each plate.

Share the apples equally between the horses.



The 9 apples are shared equally between 3 horses.
Each horse has 3 apples.

Collect 12 pebbles.



Share the pebbles equally between 3 hoops. How many are in each group?

Can you share them equally between 4 hoops? What about 5 hoops?

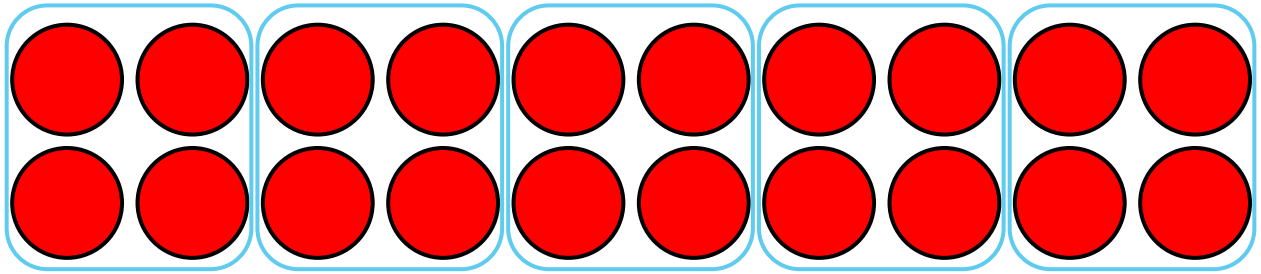
Year 2

Take 20 counters.

20 divided by 4 is equal to 5

Put them into groups of 4

$20 \div 4 = 5$



Complete the sentences.

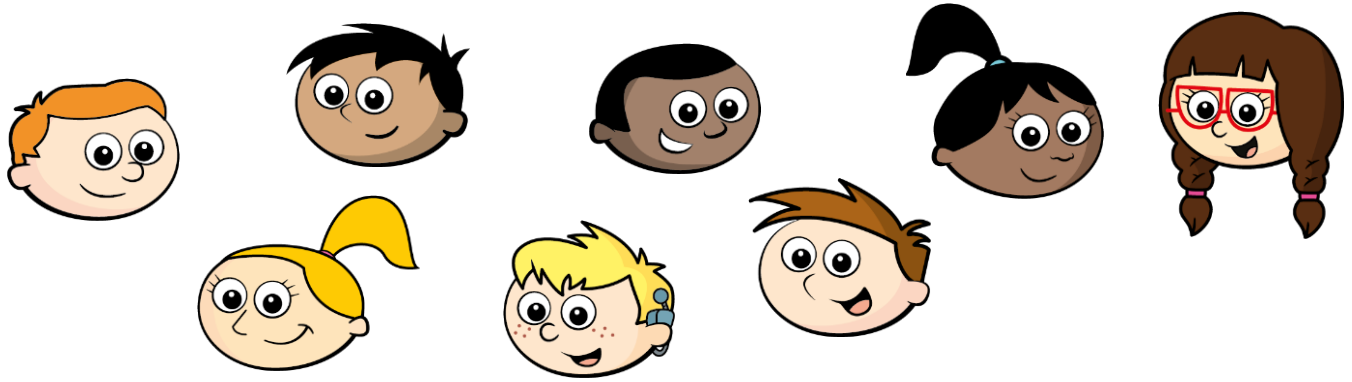
There are 20 counters altogether.

I have put them into equal groups of 4

There are 5 groups.

Have a think

The children are put into teams of 4



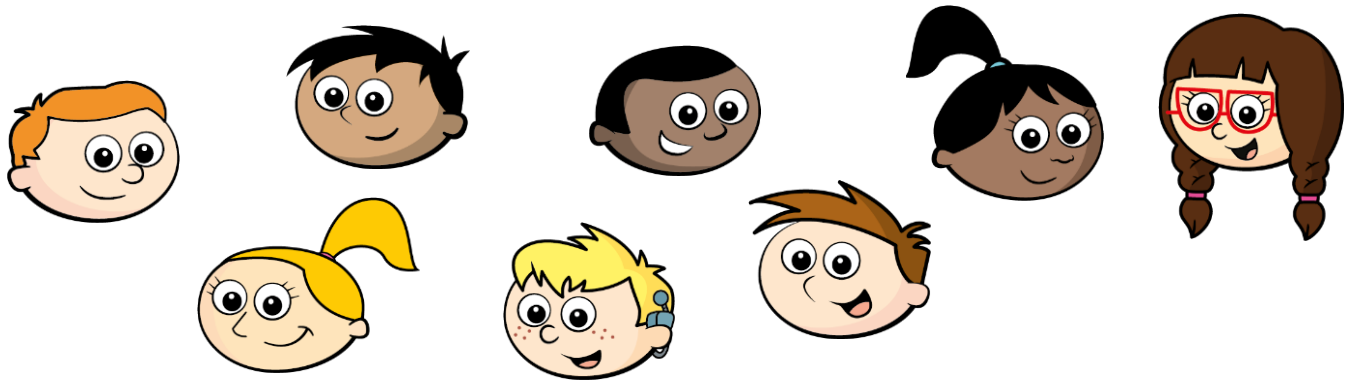
How many teams will there be? 2 teams

Complete the division.

$$8 \div 4 = 2$$

Have a think

The children are put into teams of 2



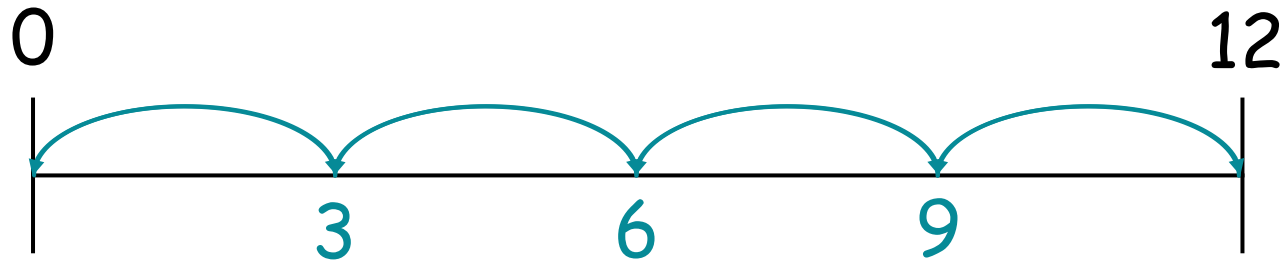
How many teams will there be? 4 teams

Complete the division.

$$8 \div 2 = 4$$

Have a think

$12 \div 3 = \boxed{4}$



How many groups of 3?

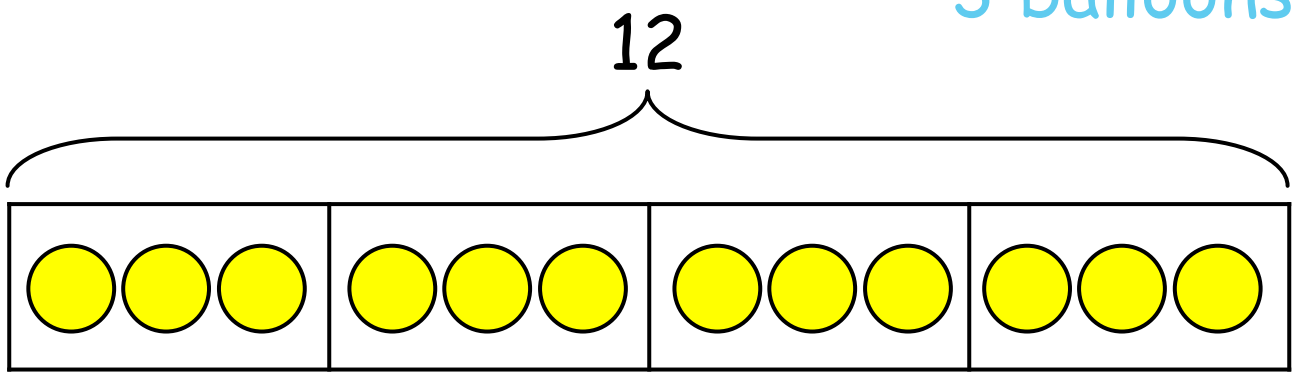
Have a think

Rosie has 12 balloons.

She shares them between 4 bags.

How many balloons are in each bag?

3 balloons

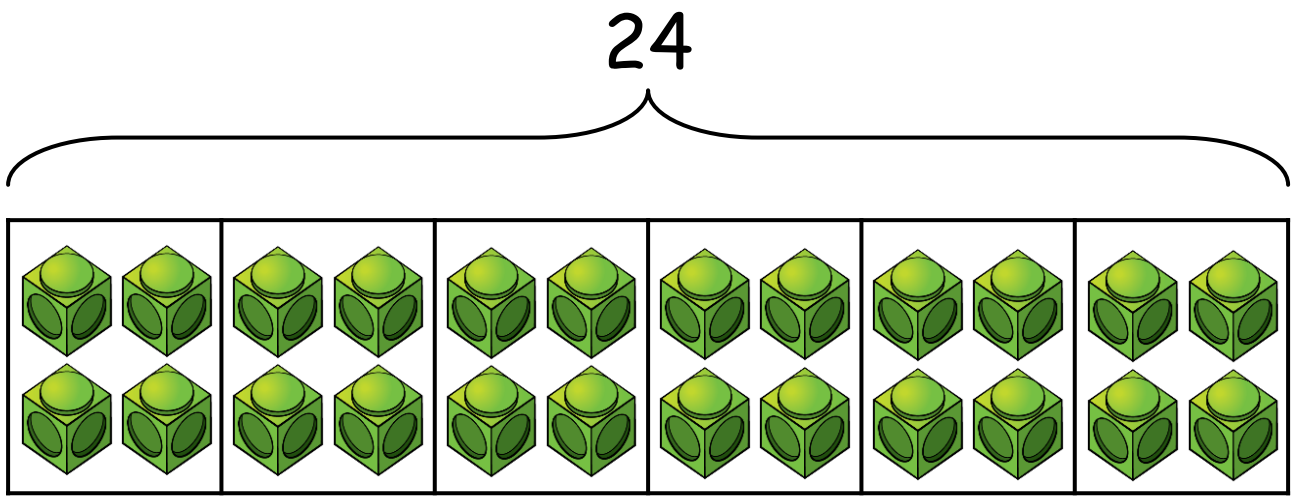


Complete the division.

12 ÷ 4 = 3

Have a think

Share 24 cubes into 6 equal groups.



Complete the division.

$24 \div 6 = \boxed{4}$

total cubes

number of groups

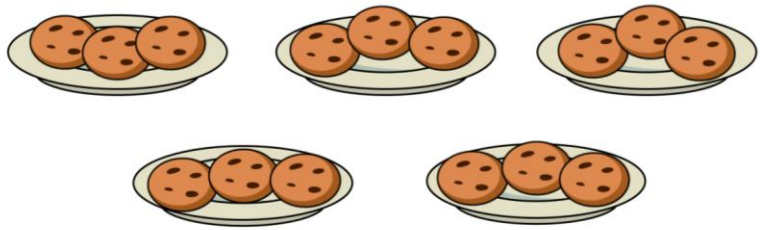
amount in each group

Have a think

There are 15 cookies altogether.

I have put them into equal groups of 3

There are 5 groups.



Grouping

$$15 \div 3 = 5$$

total

number in each group

number of groups

There are 15 cookies altogether.

They are shared into 3 equal groups.

There are 5 in each group.

Sharing

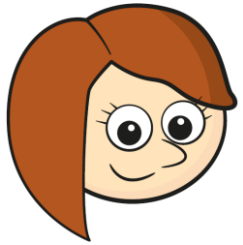
$$15 \div 3 = 5$$

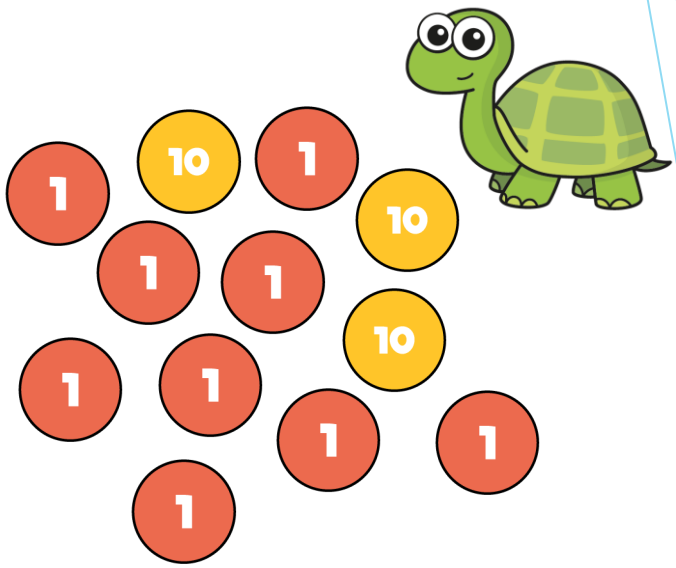
total

number of groups

number in each group

Year 3



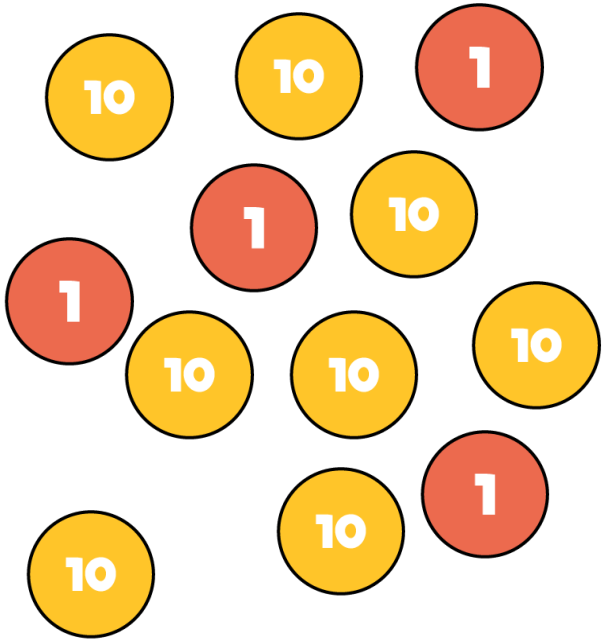


Tens	Ones

39 divided by 3 is equal to 13

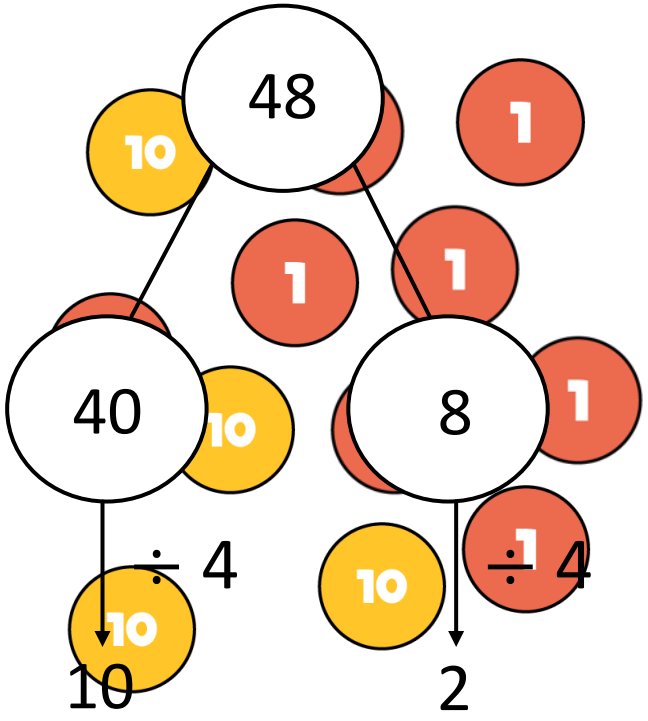
$84 \div 4 =$ 21

Have a think



Tens	Ones

$48 \div 4 = 12$

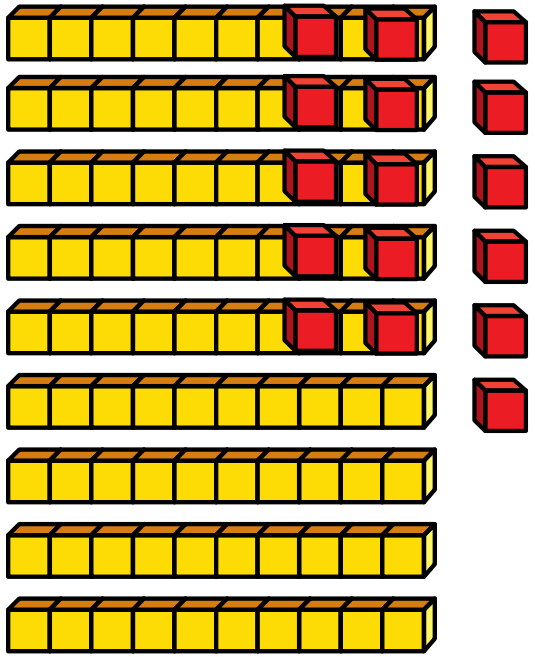


Tens	Ones

$10 + 2 = 12$

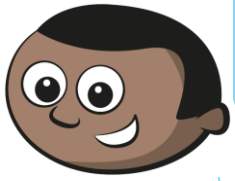
$96 \div 4 = 24$

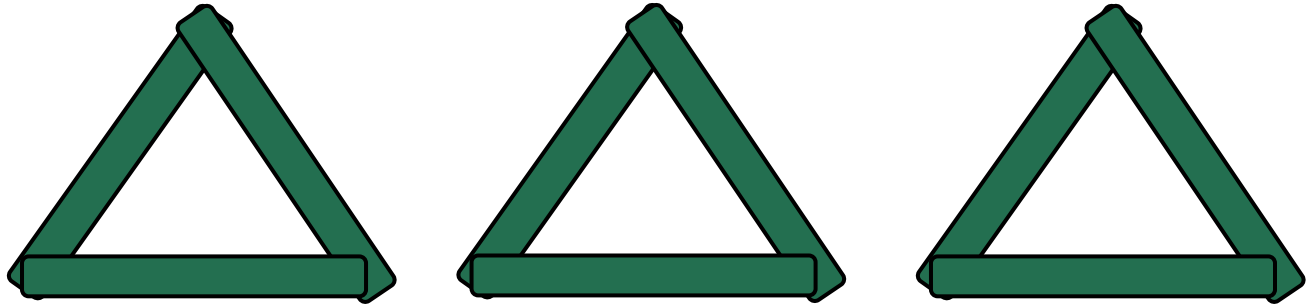
Have a think



Tens	Ones

Mo has 9 lolly sticks.
He arranges his sticks to make triangles.





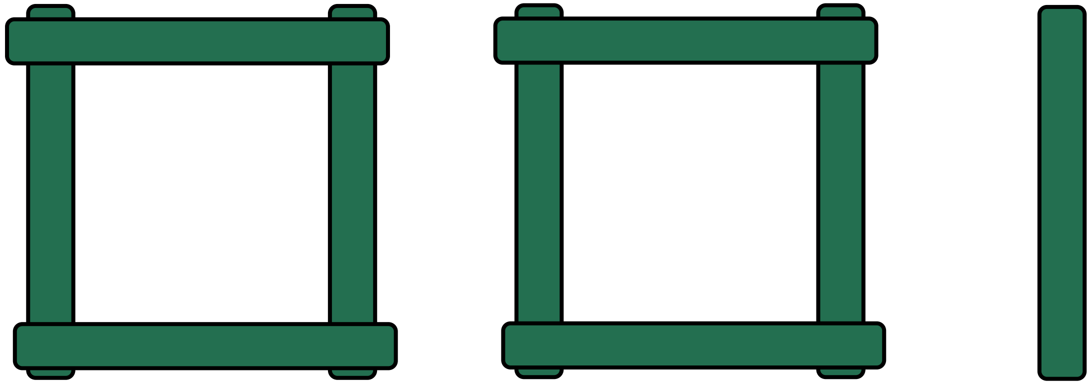
Each triangle uses 3 sticks.
Mo can make 3 triangles with 9 sticks.

There are 3 groups of 3

So 9 ÷ 3 = 3

Mo has 9 lolly sticks.

What if Mo used his sticks to make squares?



Each square uses 4 sticks.

There are __2__ groups of __4__

Mo can make 2 squares with 9 sticks.

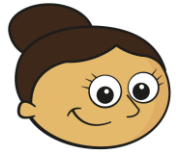
There is __1__ remaining.

There is one stick remaining.

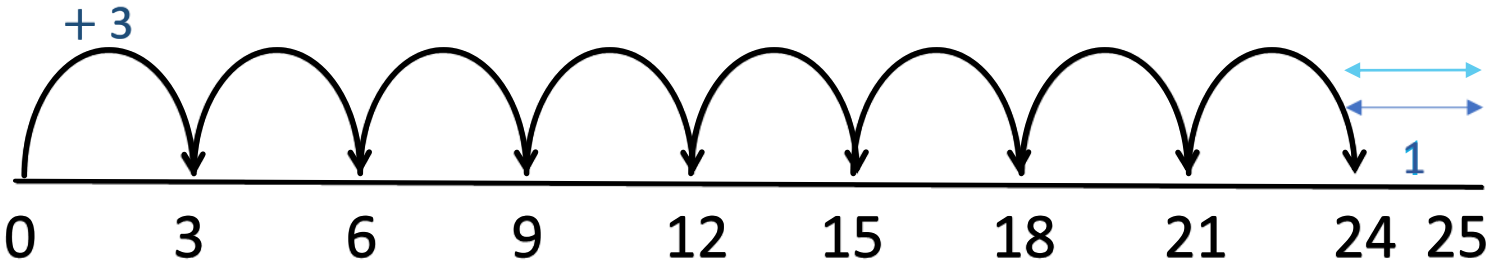
So __9__ ÷ __4__ = __2__ r __1__

$9 \div 4 = 2$ remainder 1

$25 \div 3 = 8 \text{ r } 1$

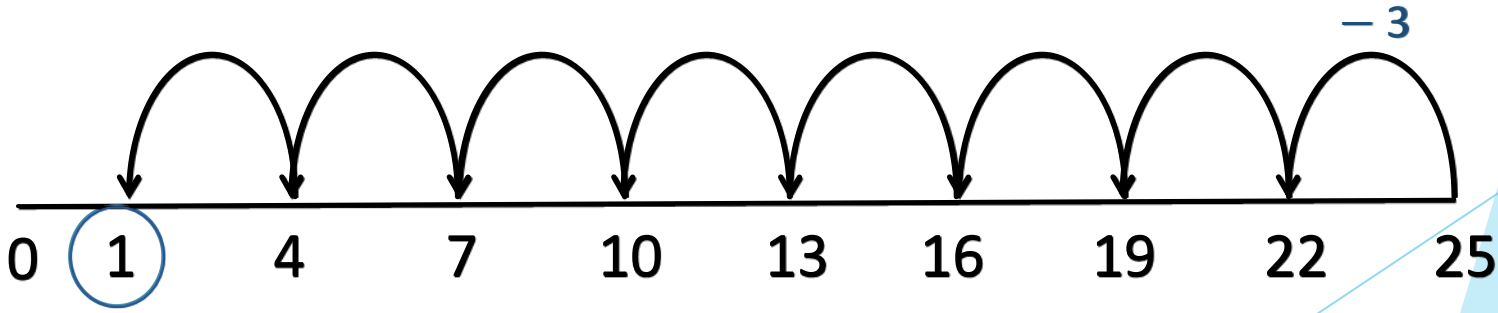


Have a think



What's the same?

What's differen



Year 4

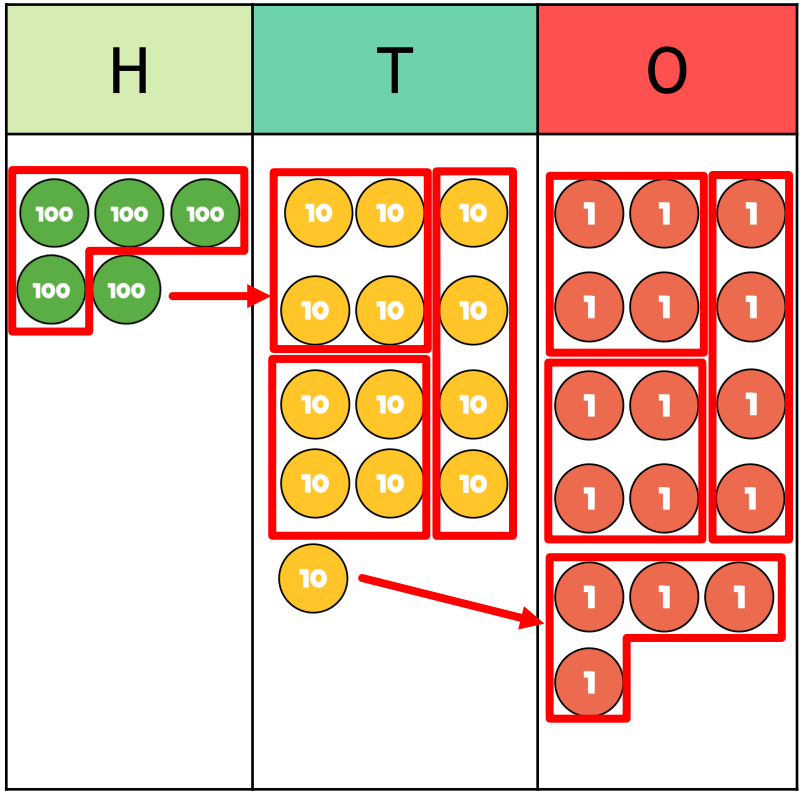
$396 \div 3 =$

H	T	O
100 100 100	10 10 10 10 10 10 10 10 10	1 1 1 1 1 1

		1	3	2	
	3	3	9	6	

Have a think

$536 \div 4 =$



Have a think

		1	3	4	
	4	5	$^{1}3$	$^{1}6$	

Year 5

TTh	Th	H	T	O
4	7	0	0	0

TTh	Th	H	T	O
	4	7	0	0

TTh	Th	H	T	O
		4	7	0

TTh	Th	H	T	O
			4	7

Have a think

$47{,}000 \div 10 = 4{,}700$

$47{,}000 \div 100 = 470$

$47{,}000 \div 1{,}000 = 47$

What stays the same? What changes?

Have a think

1) To divide a number by 10 each digit moves

1 to the right on a place value grid.

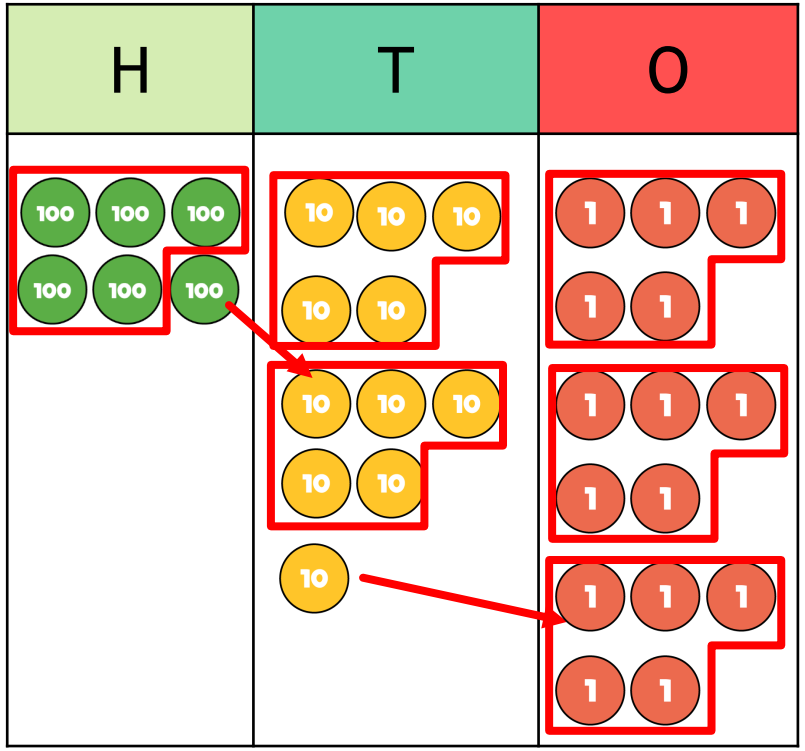
2) To divide a number by 100 each digit moves

2 to the right on a place value grid.

3) To divide a number by 1,000 each digit moves

3 to the right on a place value grid.

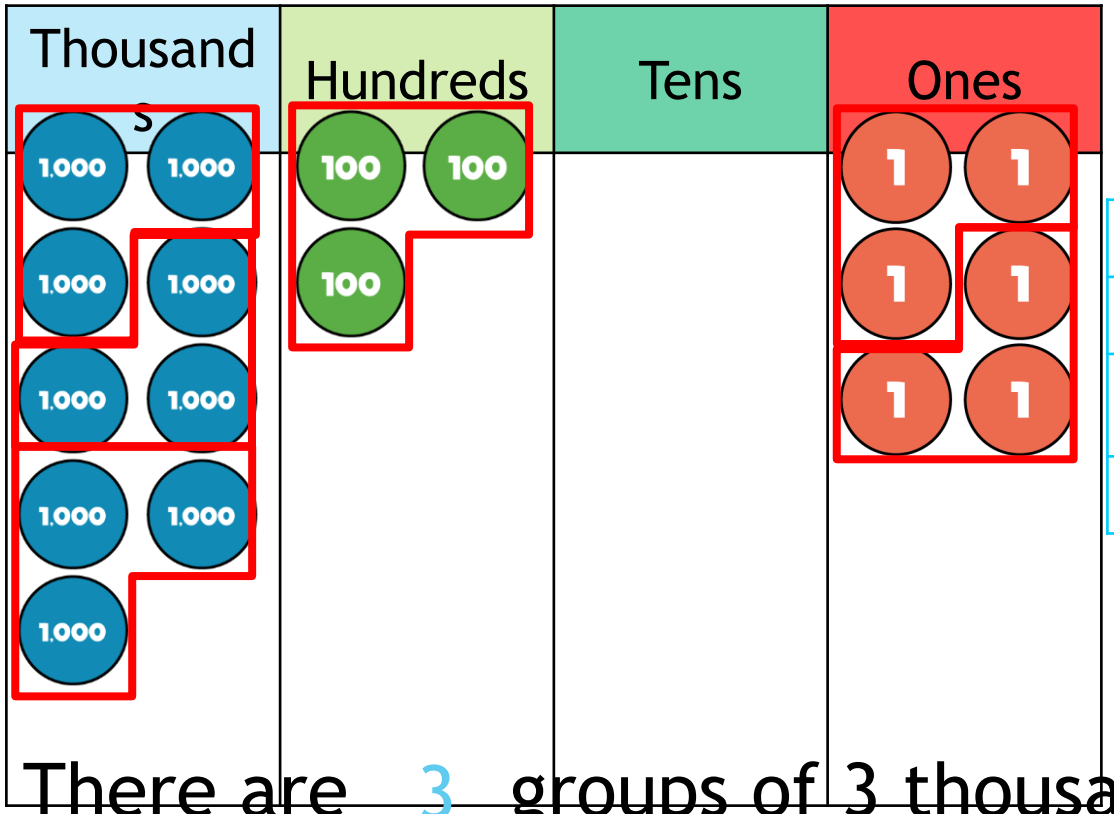
615 ÷ 5 =

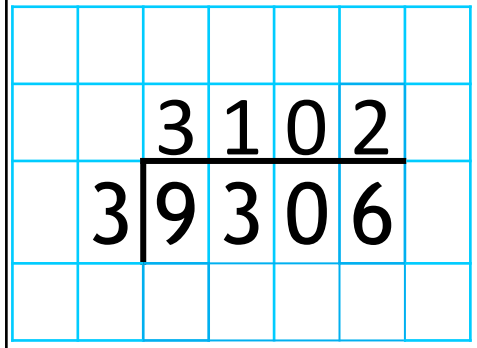


		1	2	3	
	5	6	1	1	5

9,306 ÷ 3 = 3,102

Have a think





There are 3 groups of 3 thousands.

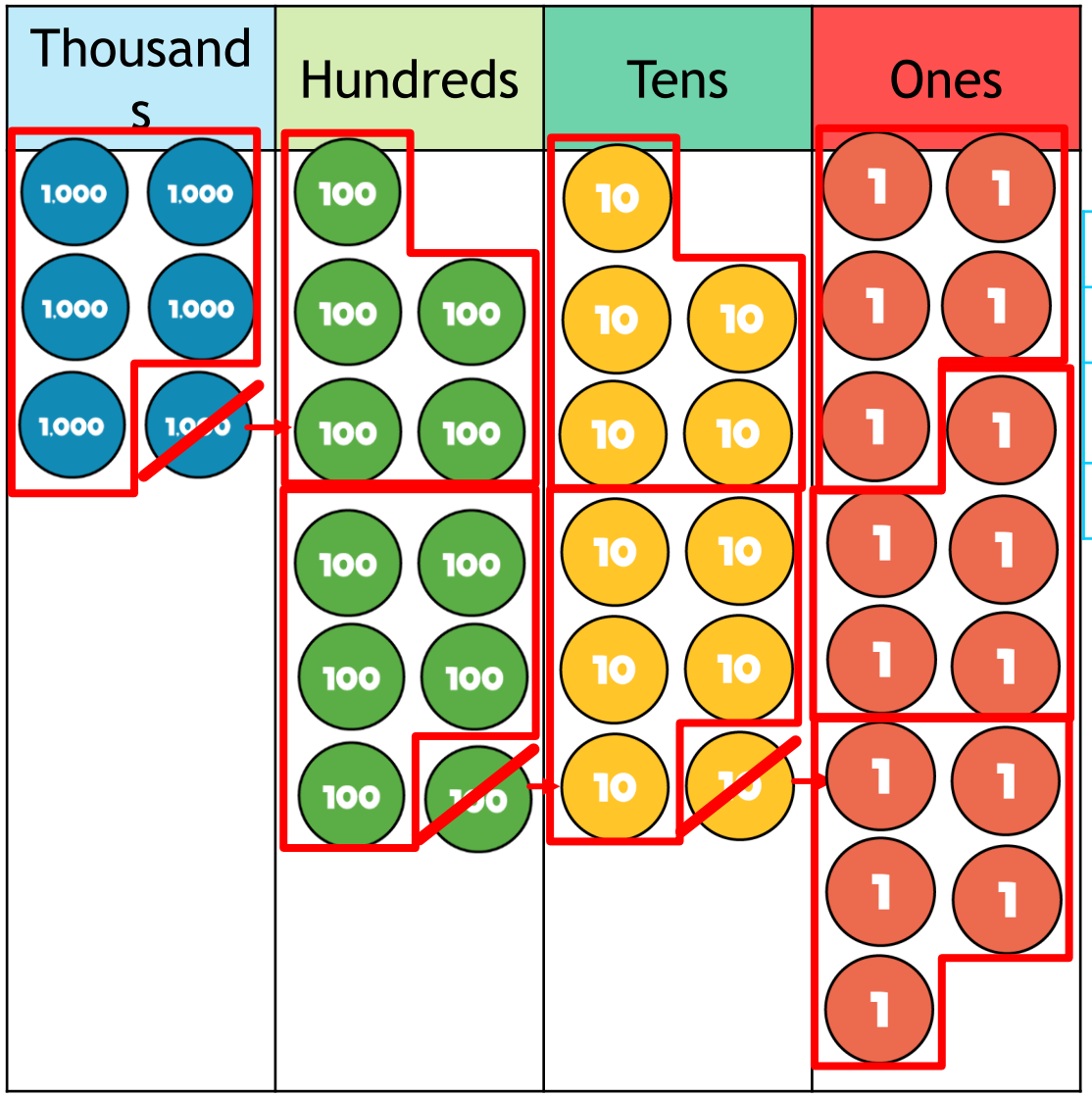
There is 1 group of 3 hundreds.

There are 0 groups of 3 tens.

There are 2 groups of 3 ones.

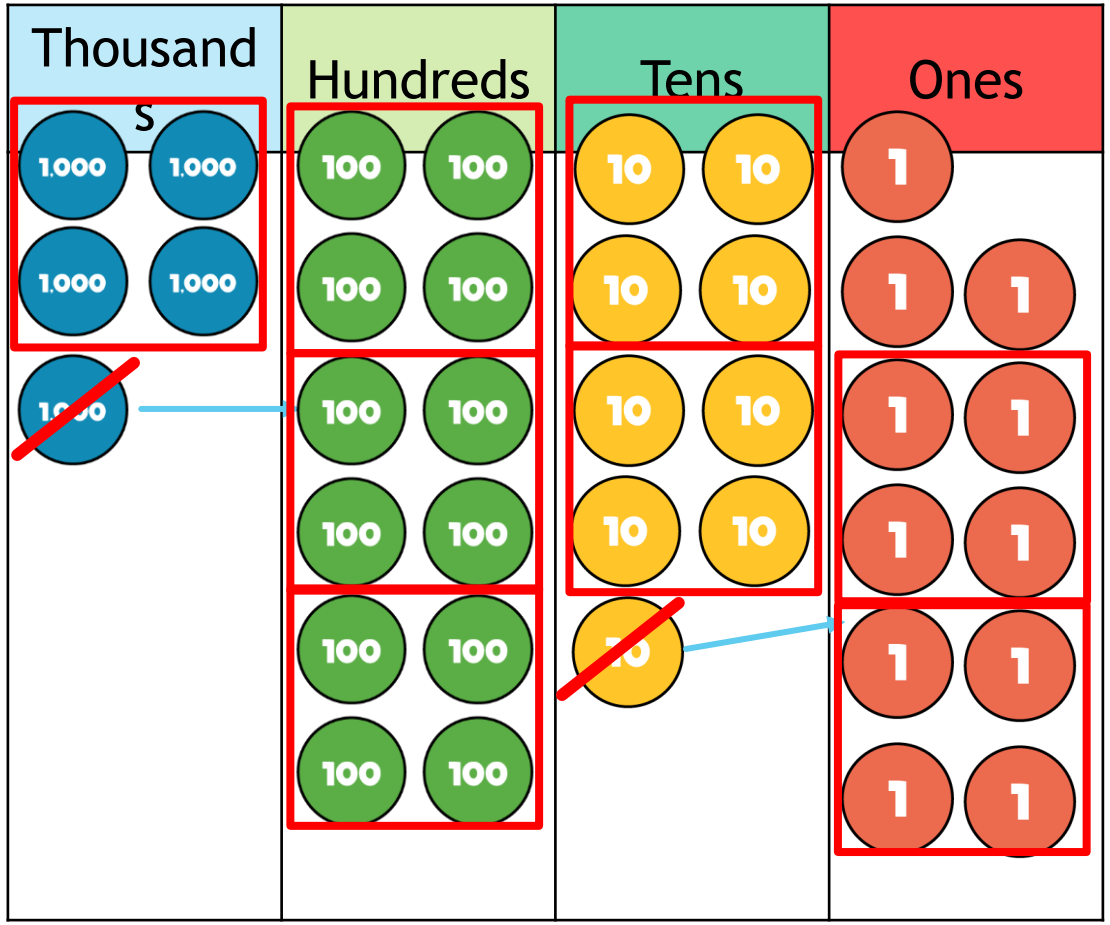
$6{,}115 \div 5 = 1{,}223$

Have a think



$$\begin{array}{r} 1223 \\ 5\overline{)6^{1}1^{1}1^{1}5} \end{array}$$

$$5{,}291 \div 4 = 1{,}322 \text{ r}3$$

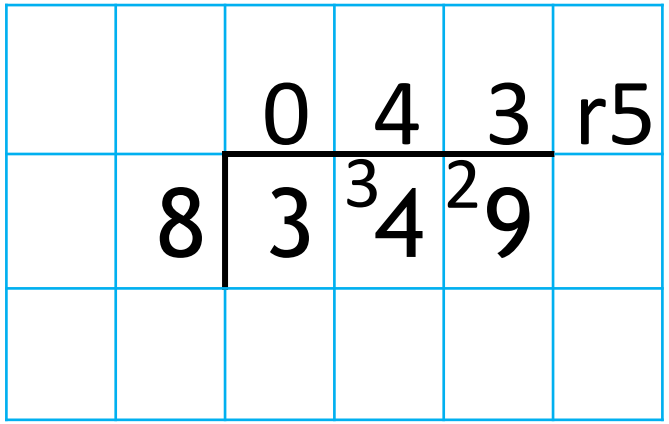


	1	3	2	2	r3
4	5	$^{1}2$	9	$^{1}1$	

There are 349 people at a wedding.

They are sitting at tables in groups of 8

How many tables are needed?

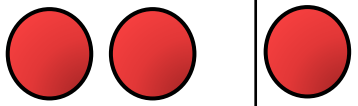


43 tables are needed.

Have a think

Year 6

$210 \div 10 = 21$

Th	H	T	O	Tth	Hth
					
	2	1	0		

When the number is divided by 10 the counters move

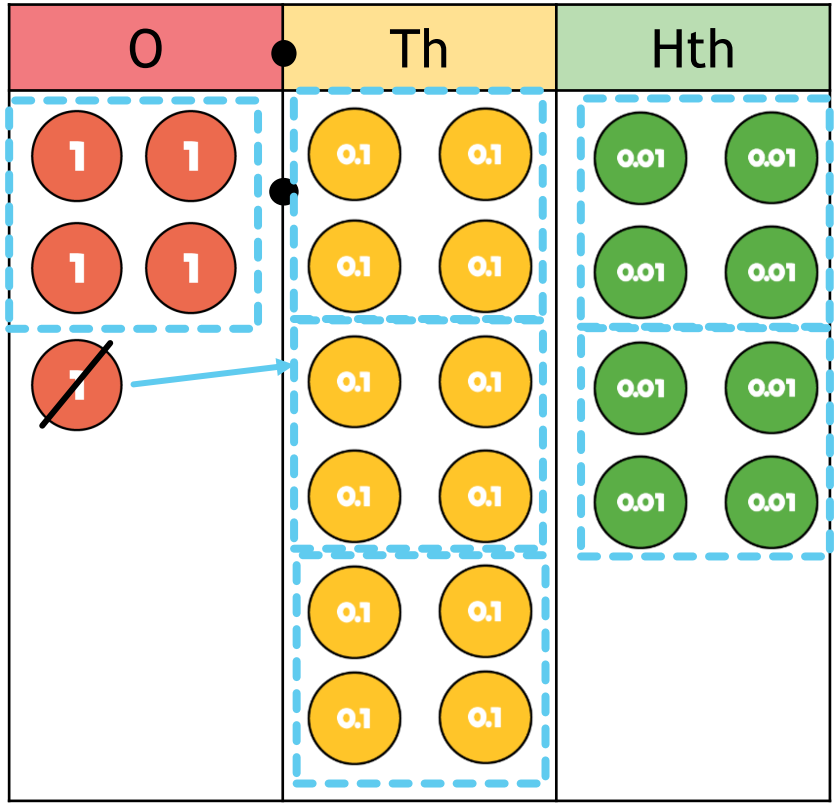
____1__ place to the right____.

$210 \div 10 \ / \ 100 \ / 1000 =$

Th	H	T	O	Tth	Hth
	2	1	0		

When the number is divided by 100 the counters move _____ places to the _____.

Calculate 5.28 divided by 4



	1	3	2
4	5	1 2	8