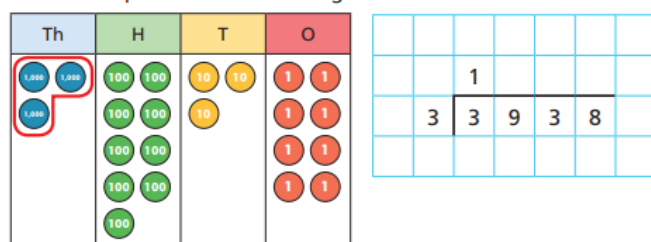


- a) Circle the groups of 3 to help complete the sentences and calculation.

The first step has been done for you.



There is group of 3 thousands.

There are groups of 3 hundreds.

There is group of 3 tens.

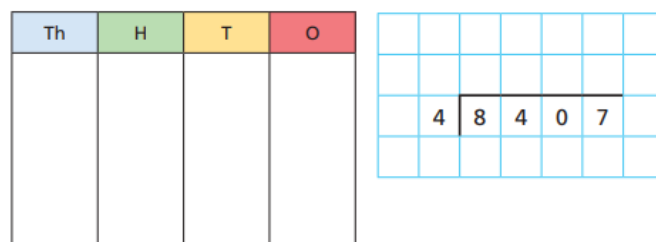
There are groups of 3 ones.

There are ones left over.

$3,938 \div 3 =$ remainder

Tricky

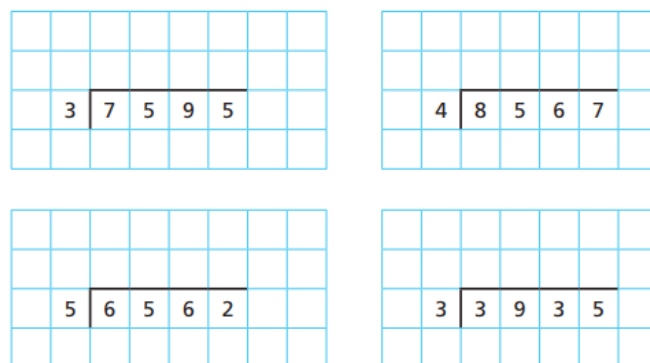
- b) Use place value counters to work out $8,407 \div 4$



$8,407 \div 4 =$ remainder

- 2 a) Complete the divisions.

Use place value counters to help you.



Trickier – complete question 2a from Tricky challenge first

- b) Write $<$, $>$ or $=$ to complete the statements.

$7,595 \div 3$ $8,567 \div 4$

$6,562 \div 5$ $3,935 \div 3$

- 3 Write the calculations in the correct column of the table.

$5,066 \div 4$	$9,513 \div 4$	$1,234 \div 4$
$6,562 \div 4$	$6,563 \div 4$	$9,515 \div 4$

Muffins are packed in trays of 6 in a factory.
In one day, the factory makes 5,623 muffins.
How many trays do they need?
How many trays will be full?
Why are your answers different?

Remainder of 1	Remainder of 2	Remainder of 3	Remainder of 4

Trickiest – Complete question 3 from Trickier challenge above before tackling the questions below

1,786



Do you agree with Mo? _____

Explain your answer.

How many possible examples can you find?

		1	3	1	1	2
3	3	9	3	5		

Trickier

$$7,595 \div 3 \quad \text{>} \quad 8,567 \div 4$$

$$6,562 \div 5 \quad \text{>} \quad 3,935 \div 3$$

Bags of crisps are put into multipacks of 6
The multipacks are then packed into boxes of 8
Yesterday, 6,500 bags of crisps were packed.
How many boxes of crisps were packed?

Remainder of 1	Remainder of 2	Remainder of 3	Remainder of 4
$9,513 \div 4$	$5066 \div 4$ $6562 \div 4$ $1,234 \div 4$	$6563 \div 4$ $9,515 \div 4$	

Trickiest

There are 459 children in a school.
They are sitting at tables in groups of 7



We will need
65 tables.

Do you agree with Mo? NO

There will always be a remainder 1
because in the ones column is 6 and 1

In the five times table the ones column is
either a 5 or 0, so there will be one left

Will need 66 tables as $459 \div 7 = 65 \text{ r } 4$

I am thinking of a 3-digit number.

When it is divided by 9, the
remainder is 3

When it is divided by 2, the
remainder is 1

When it is divided by 5, the
remainder is 4

What is my number?

Possible answers:

129	219
309	399
489	579
669	759
849	939

Encourage
children to think
about the
properties of
numbers that work
for each individual
statement.
This will help
decide the best
starting point.

Always, Sometimes, Never?

A three-digit number made of
consecutive descending digits
divided by the next descending digit
always has a remainder of 1

$$765 \div 4 = 191 \text{ remainder } 1$$

How many possible examples can you
find?

Sometimes

Possible answers:

$432 \div 1 = 432 \text{ r } 0$
 $543 \div 2 = 271 \text{ r } 1$
 $654 \div 3 = 218 \text{ r } 0$
 $765 \div 4 = 191 \text{ r } 1$
 $876 \div 5 = 175 \text{ r } 1$
 $987 \div 6 = 164 \text{ r } 3$