Aim

- To solve division problems using a formal written method.

Success Criteria

- I can set the calculation out correctly.
- I can calculate the answer using a formal written method.
- I can identify remainders and record them in my answer.

Number Hops

$32 \div 4 =$

How many groups of 4 carrots are there in 32?

Draw a number line with **0** at the start and the target number **32** at the end.

Number Hops

Whole Class

32 ÷ 4 = 8

How many groups of 4 are there in 32? **8**

We just worked this out by hopping along the number line.

We can also set this out using a **formal written method.**

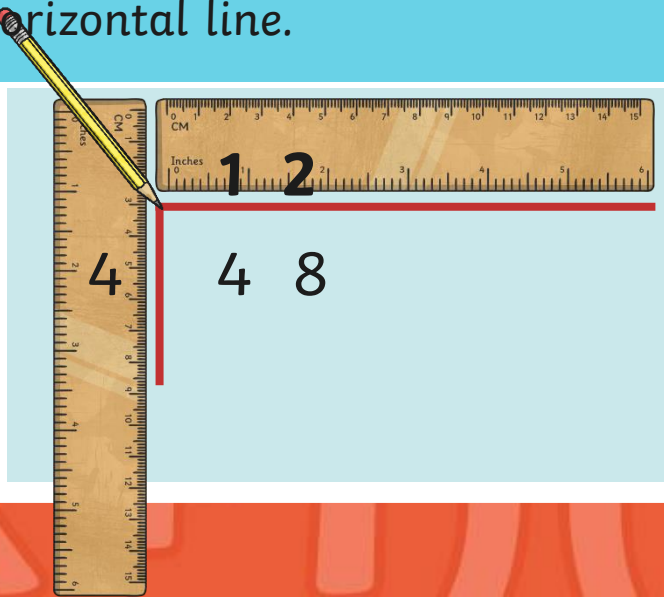
It's called **short division**, but sometimes we call it the bus stop method.
This is because the layout we use looks a bit like a bus stop.

The Bus Stop

Whole Class

48 sweets ÷ 4 people =

1. Draw the layout for the formal written method. This looks a bit like a bus stop!
2. Write the number you are dividing by in front of the vertical line. This is the **divisor.**
3. Write the number that is being divided after the vertical line. This is the **dividend.**
4. The answer goes on top of the horizontal line.

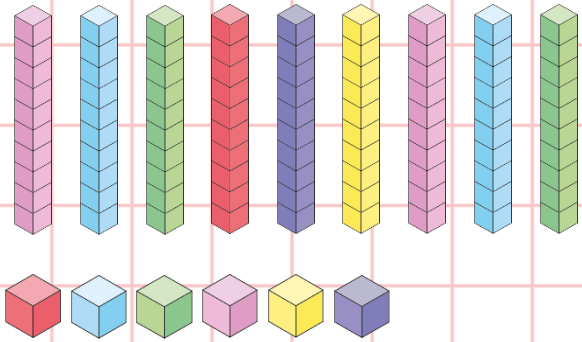


The Bus Stop

Whole Class

We solve short division problems by dividing 1 digit at a time.

96 ÷ 3 = **32**



3 | 9 6

Write the answer 3 on the line.

Put the 9 tens into 3 groups. How many tens would be in each group?

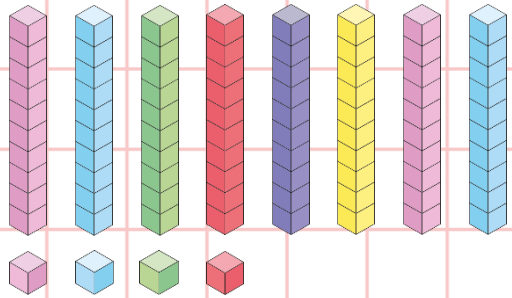
Now, let's look at the ones.
Share the 6 ones into 3 groups. There are 2 in each group.

The Bus Stop

Whole Class

We solve short division problems by dividing 1 digit at a time.

84 ÷ 4 = **21**



4) 8 4

Write the answer 2 on the line.

Share the 8 tens into 4 groups. How many tens would be in each group?

Now, let's look at the ones.
Share the 4 ones into 4 groups. There is 1 in each group.

The Bus Stop

Whole Class

Have a go at solving this division problem by dividing 1 digit at a time.

69 ÷ 3 =

3) 6 9

Regrouping

Whole Class

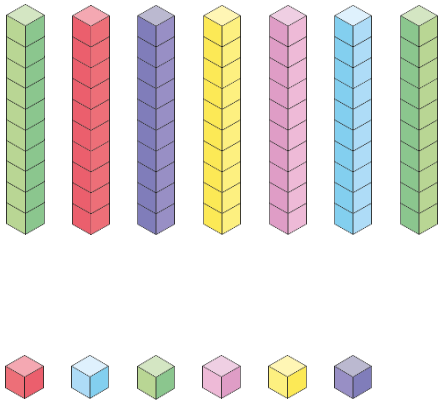
Sometimes when we are dividing 1 digit at a time, the digits don't divide exactly and there are some left over.

We solve this by regrouping.

Regrouping

Whole Class

76 ÷ 2 = 38



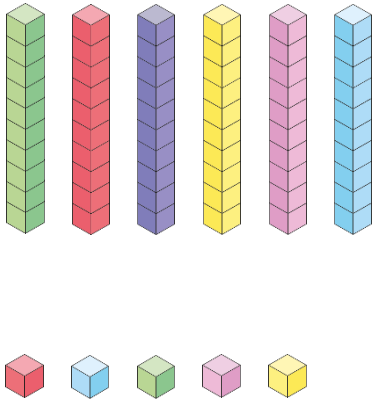
	3	8
2	7	6
		1

Share the 7 tens into 2 groups. How many tens sticks are in each group? 8

Regrouping

Whole Class

65 ÷ 5 = 13



$$\begin{array}{r|l} & 1\ 3 \\ \hline 5 & 6\ \overset{1}{}\ 5 \end{array}$$

Share the 6 tens into 5 groups. How many tens sticks are in each group? 3

Regrouping

90 ÷ 5 = 18

	1	8
5	9	0

4

How many 5s are there in 40?

Regrouping

36 ÷ 3 = 12

	1	2
3	3	□ 6

How many 3s are there in 3 tens?

Regrouping

92 ÷ 4 = 23

	2	3
4	9	2

1

How many 4s are there in 9 tens?