Sugar Rush

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.

Now the rabbit is going to see how many hops of 4 it will take to get to 32.

Number Hops

$32 \div 4 = 8$

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

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

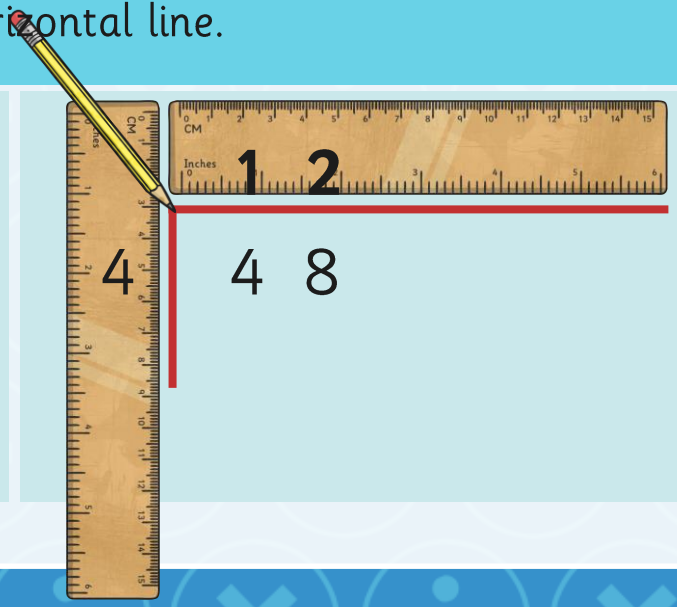
We can also set this out using a **formal written method.**

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

48 sweets ÷ 4 people =

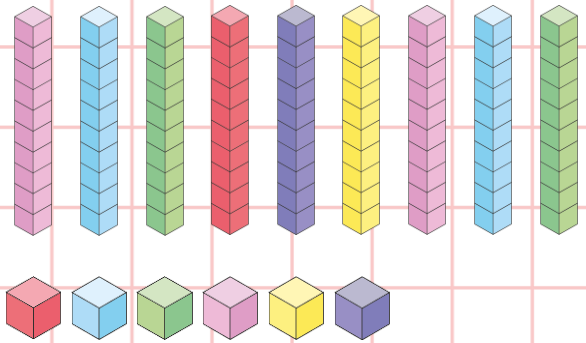
1. Draw the layout for the formal written method. This looks a bit like a bus stop!
2. Write the number you are dividing by in front of the vertical line. This is the **divisor.**
3. Write the number that is being divided after the vertical line. This is the **dividend.**
4. The answer goes on top of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



The Bus Stop

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

96 ÷ 3 = **32**



$$\begin{array}{r} 3\ 2 \\ 3\overline{)\ 9\ 6} \end{array}$$

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

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

$84 \div 4 = \mathbf{21}$

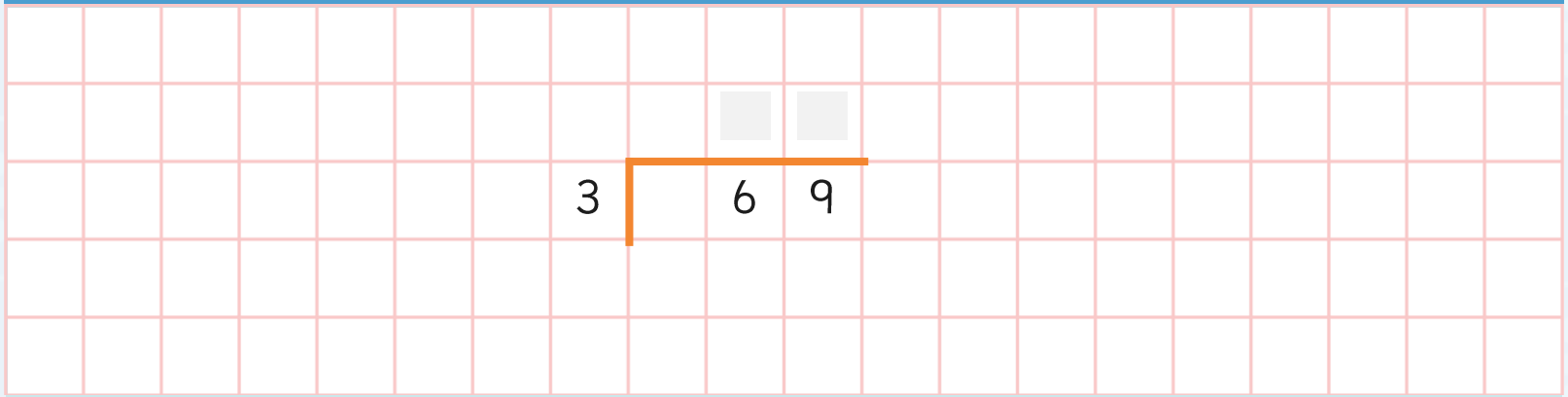
Share the 8 tens into 4 groups. How many tens would be in each group?

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

The Bus Stop

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

$69 \div 3 =$



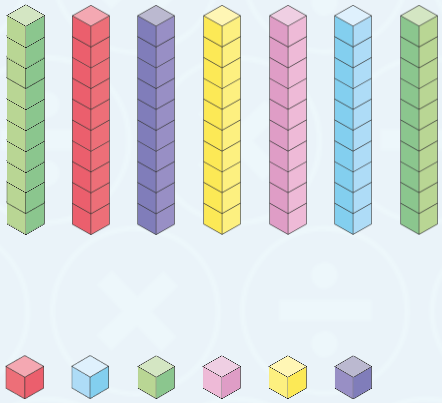
Regrouping

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

76 ÷ 2 = 38

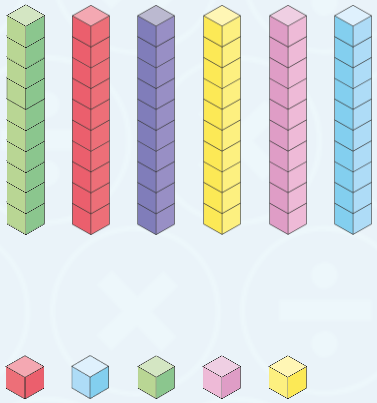


$$\begin{array}{r} 3\,8 \\ 2\overline{)\,7\,^{1}6} \end{array}$$

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

Regrouping

$$65 \div 5 = 13$$

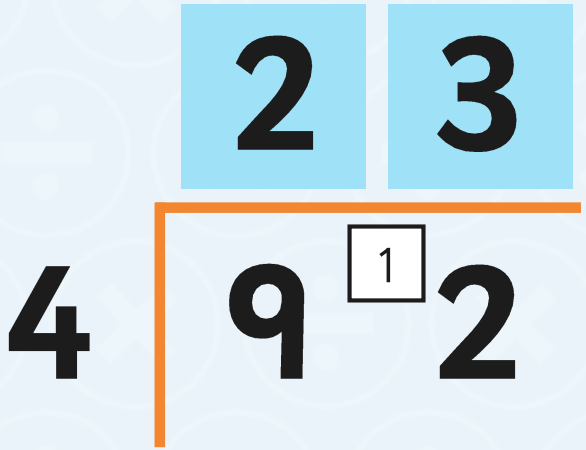


	1	3
5	6	1 5

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

Regrouping

92 ÷ 4 = 23



How many 4s are there in 9 tens?

Remainders

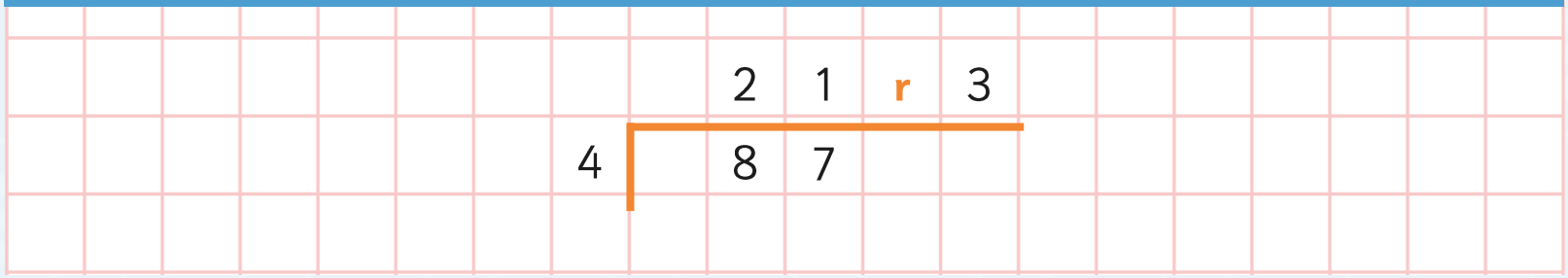
What happens if the **dividend** is not a multiple of the **divisor**?

87 ÷ 4 = ?

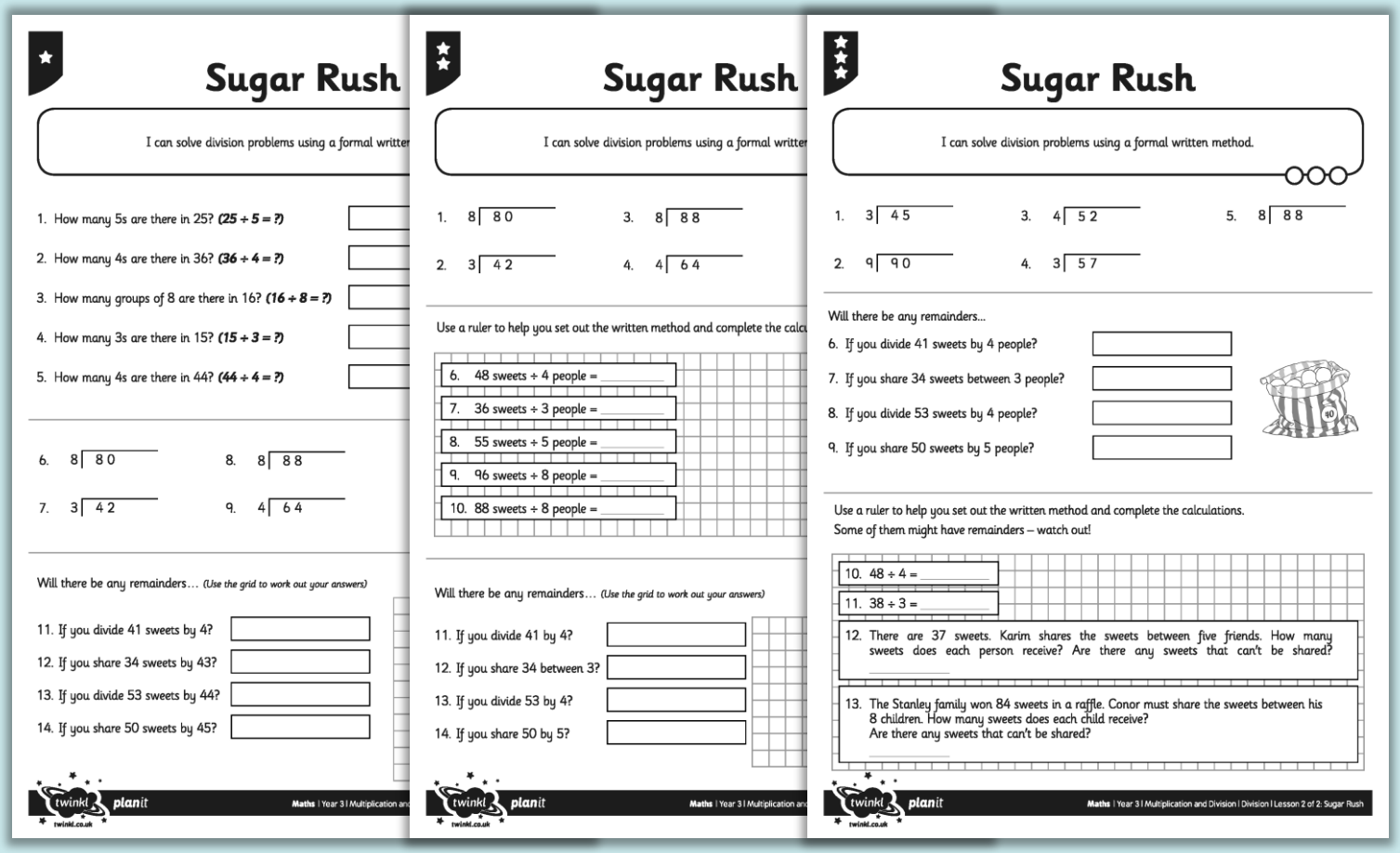
First, we divide the **8** tens into **4** groups.
This gives us 2 tens in each group. Write 2 on the line.

Next, we need to share the 7 ones into 4 groups.
There is 1 group of 4 (write 1 on the line). There are 3 left over.

The number that is left over is called a **remainder**. We write **r** for short.



Sugar Rush Activity



Sugar Rush

I can solve division problems using a formal written

1. How many 5s are there in 25? ***(25 ÷ 5 = ?)***
2. How many 4s are there in 36? ***(36 ÷ 4 = ?)***
3. How many groups of 8 are there in 16? ***(16 ÷ 8 = ?)***
4. How many 3s are there in 15? ***(15 ÷ 3 = ?)***
5. How many 4s are there in 44? ***(44 ÷ 4 = ?)***

6. 8 ⟌ 80
7. 3 ⟌ 42
8. 8 ⟌ 88
9. 4 ⟌ 64

Will there be any remainders… *(Use the grid to work out your answers)*

11. If you divide 41 sweets by 4?
12. If you share 34 sweets by 43?
13. If you divide 53 sweets by 44?
14. If you share 50 sweets by 45?

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Sugar Rush

I can solve division problems using a formal writte

1. 8 ⟌ 80
2. 3 ⟌ 42
3. 8 ⟌ 88
4. 4 ⟌ 64

Use a ruler to help you set out the written method and complete the calc

6. 48 sweets ÷ 4 people = _____
7. 36 sweets ÷ 3 people = _____
8. 55 sweets ÷ 5 people = _____
9. 96 sweets ÷ 8 people = _____
10. 88 sweets ÷ 8 people = _____

Will there be any remainders… *(Use the grid to work out your answers)*

11. If you divide 41 by 4?
12. If you share 34 between 3?
13. If you divide 53 by 4?
14. If you share 50 by 5?

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Sugar Rush

I can solve division problems using a formal written method.

1. 3 ⟌ 45
2. 9 ⟌ 90
3. 4 ⟌ 52
4. 3 ⟌ 57
5. 8 ⟌ 88

Will there be any remainders...

6. If you divide 41 sweets by 4 people?
7. If you share 34 sweets between 3 people?
8. If you divide 53 sweets by 4 people?
9. If you share 50 sweets by 5 people?

Use a ruler to help you set out the written method and complete the calculations.
Some of them might have remainders – watch out!

10. 48 ÷ 4 = _____
11. 38 ÷ 3 = _____
12. There are 37 sweets. Karim shares the sweets between five friends. How many sweets does each person receive? Are there any sweets that can't be shared?
13. The Stanley family won 84 sweets in a raffle. Conor must share the sweets between his 8 children. How many sweets does each child receive? Are there any sweets that can't be shared?

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