

Day 2

Begin to use a formal written method to divide TO by O .

Regrouping

11/1/22

Day 2



How would you use the base 10 to divide 38 by 2?





Let's see what you have done.



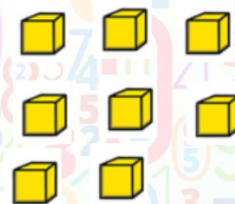
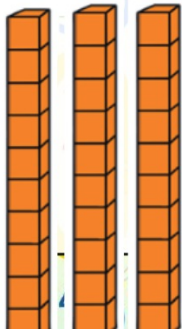
Soldier 1



Soldier 2



Exchange
if needed





Soldier 1



Soldier 2



Now we are going to explore how we would do this using the bus stop method.

We used this yesterday but we didnt need to regroup then.

How do you think it will look differently today?



38 divided by 2

$$\begin{array}{r} 2 \overline{) 38} \end{array}$$

This is the number that we are dividing by.

38 divided by 2

$$2 \overline{) 38}$$

This is the number that we are dividing.

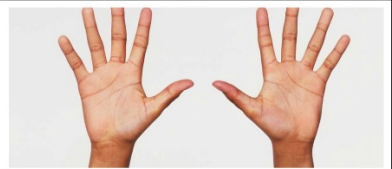
38 divided by 2

$$2 \overline{) 38}$$

We start off by looking at the first number,
(the tens)

We say how many times will 2 go into 3.

38 divided by 2



2

3

8

We need to count in 2s until we get to 3.

Do we land on 3 exactly?

We have to go to the number before.

How many times did we count in 2s then?

What is left over to get to 3?

38 divided by 2

$$\begin{array}{r} 2 \overline{) 38} \end{array}$$

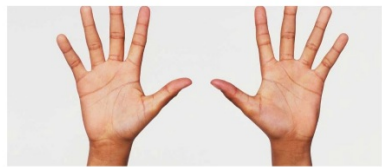
We've counted once.

To get from 3 to 4, that is 1 more. We need to carry that over to the next number.



38 divided by 2

$$\begin{array}{r} 1 \\ 2 \overline{) 38} \\ \underline{2} \\ 18 \end{array}$$



We write the answer above that first number. We carry the 1 that was left over to the next column. It goes in front of the next number.

38 divided by 2

$$\begin{array}{r} 1 \\ 2 \overline{) 38} \end{array}$$

Then we look at the second number, (the ones)

We say how many times will 2 go into 18.
(because of the 1 ten that we carried over)

38 divided by 2

$$\begin{array}{r} 1 \\ 2 \overline{) 38} \\ \underline{2} \\ 18 \end{array}$$

We need to count in 2s until we get to 18.
How many times did we count?



38 divided by 2

$$\begin{array}{r} 19 \\ 2 \overline{) 38} \\ \underline{2} \\ 18 \\ \underline{18} \\ 0 \end{array}$$

We write the answer above that second number.



Your turn



Have a go at these.

$$2 \overline{) 72}$$

$$4 \overline{) 66}$$

$$3 \overline{) 52}$$

$$2 \overline{) 96}$$

It is important to set these out neatly in your book.

$$38 \div 2 =$$

$$2 \overline{) 38}$$

Each number needs a square of its own.

Draw the lines for the bus stop carefully using the lines in your book.

Choose a question

38 divided by 2

Set it out in your yellow maths book and solve the question using the steps that we have been doing together. Don't forget to show the number that is left over from the tens.

$$38 \div 2 =$$

$$2 \overline{) 38}$$

96 divided by 2	72 divided by 3	92 divided by 4	84 divided by 2
78 divided by 2	45 divided by 3	56 divided by 4	64 divided by 2
52 divided by 2	42 divided by 3	52 divided by 4	88 divided by 2
34 divided by 2	78 divided by 3	96 divided by 4	24 divided by 2

Going Deeper

$$\begin{array}{r} 1 \quad 6 \\ 2 \overline{) \square 2} \end{array}$$

$$\begin{array}{r} 2 \quad 3 \\ 4 \overline{) \square 2} \end{array}$$

$$\begin{array}{r} 1 \quad 3 \\ 3 \overline{) \square 6} \end{array}$$

$$\begin{array}{r} 4 \quad 8 \\ 2 \overline{) \square 6} \end{array}$$