

Maths

4.12.20

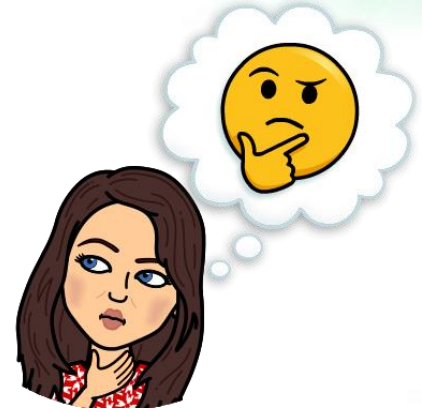


WALT: Divide by 10

S2S: I can

- Use manipulatives
- Identify the link between dividing by 10 and the position of the digits
- Begin to understand the relationship between multiplying and dividing





Let's Learn



What does dividing by 10 mean?

The number gets **10 times**
smaller.

$$40 \text{ divided by } 10 = 4$$

4 is **10 times** smaller than 40

Let's recap multiplying by 10!

Each time you multiply by 10, you move the counters to the left on the place value grid.

The number has got 10 times bigger.

$$4 \times 10 = 40$$

Place Value Grid

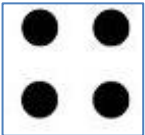
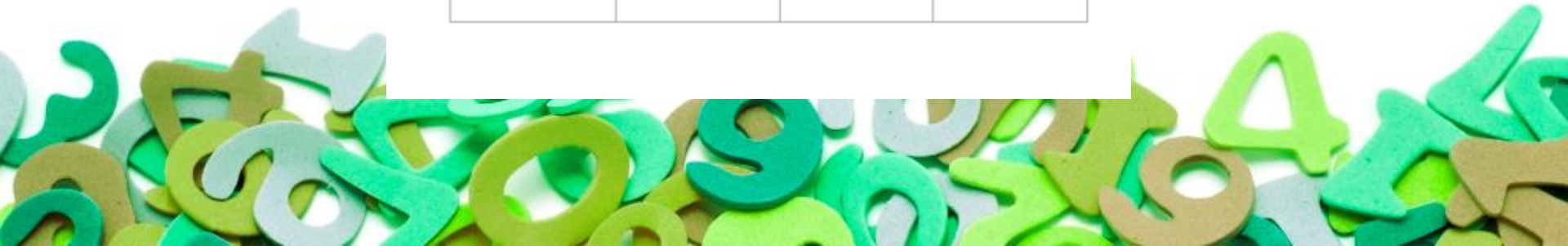
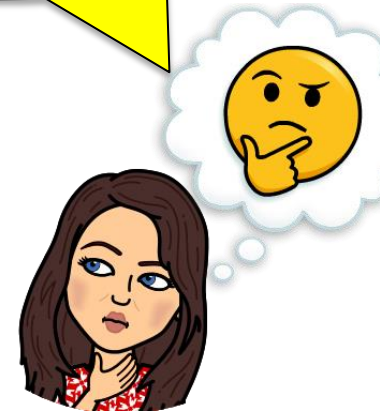
TH Thousands	H Hundreds	T Tens	U Units
			

Diagram illustrating the place value grid for the equation $4 \times 10 = 40$. The grid has four columns: TH (Thousands), H (Hundreds), T (Tens), and U (Units). The T column contains four black circular counters. Three blue arrows labeled "X 10" point from the T column to the H column, from the H column to the TH column, and from the U column to the T column, indicating the direction of multiplication by 10.

What do you think happens to the counters if we divide by 10?



Let's divide by 10.

Each time you divide by 10, you move the counters one place to the right on the place value grid.

The number has got 10 times smaller.

40 divided by 10 =

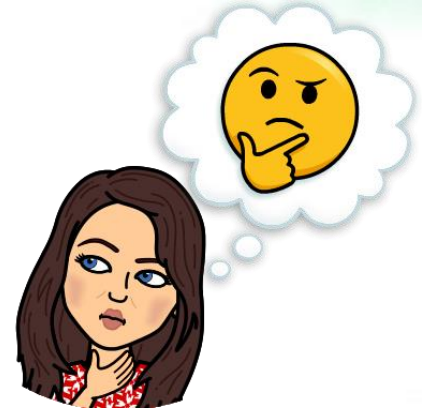
What has happened to the counters?

Place Value Grid

TH Thousands	H Hundreds	T Tens	U Units
			



Guided Practice



On your place value grids and using your cubes show me...

- $30 \div 10 =$

What has happened?
How is this different
to multiplying by 10?



On your place value grids and using your cubes show me...

- $230 \div 10 =$

What has happened?
How is this different
to multiplying by 10?



Independent Practice




Independent Practice 1


Fill in the number sentences and colour in where the counters will be after you have divided by 10.

Independent Practice I


1. 40 divided by 10 =

Thousands	Hundreds	Tens	Ones
			

divided by
10

Thousands	Hundreds	Tens	Ones
			

2. 400 divided by 10 = _____

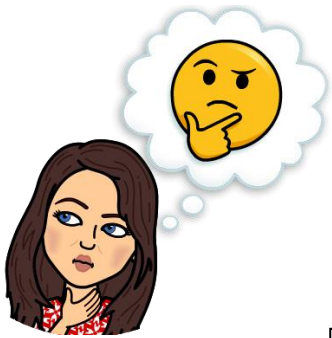
Thousands	Hundreds	Tens	Ones
			

divided by
10

Thousands	Hundreds	Tens	Ones

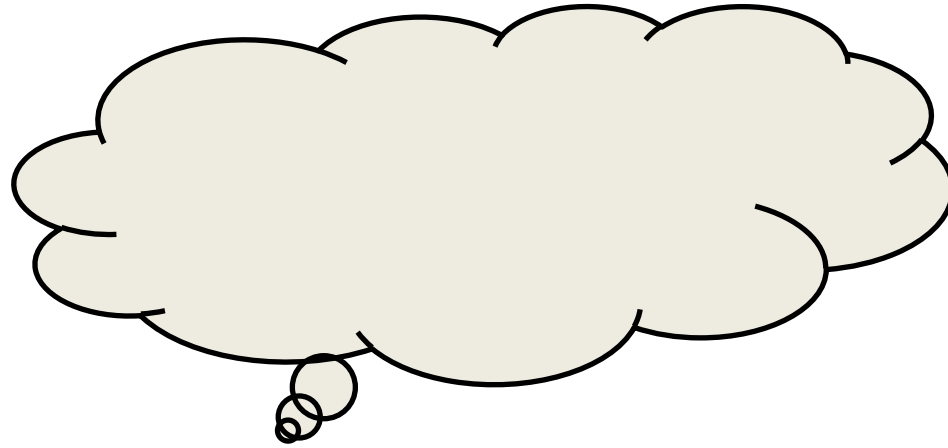


Challenge



Challenge

What happens to the digits in your calculation when you divide by 10 and when you multiply by 10? Give examples to help you explain.



Self-Assessment

- Have you been successful today?
- How do you know?

WALT: Divide by 10

S2S: **I have**

***Used** manipulatives

***Identified** the link between dividing by 10 and the position of the digits

***Begun** to understand the relationship between multiplying and dividing

