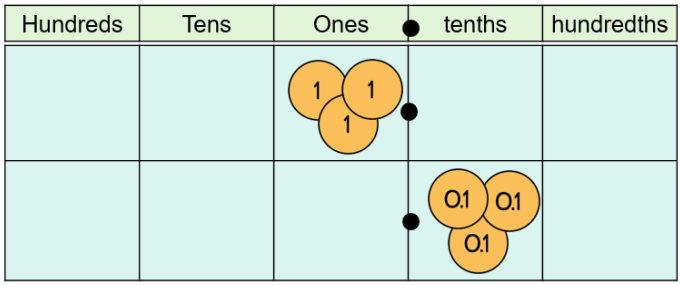
WORKED EXAMPLE



I have noticed that ***3 ones*** *counters in the ones column and* ***3 tenths*** *counters in the tenths column.*

I know that *each place value column gets ten times greater as you move* ***left.***

I know that *there are* ***10 tenths*** *in each* ***whole*** *one so there are* ***30 tenths in 3 ones.***

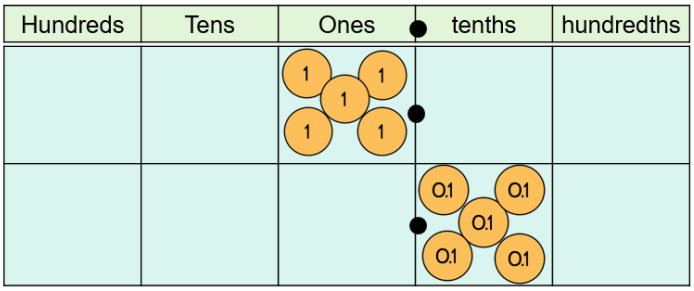
I know that *3 ones ÷ 10 = 3 tenths. 3 tenths is 0.3 as a decimal or* $\frac{3}{10}$ *as a fraction.*

I know that *3 is 10 times greater than 0.3 because 0.3 x 10 = 3.*

multiply	divide	value	column	decimal	fraction	placeholder

REHEARSE

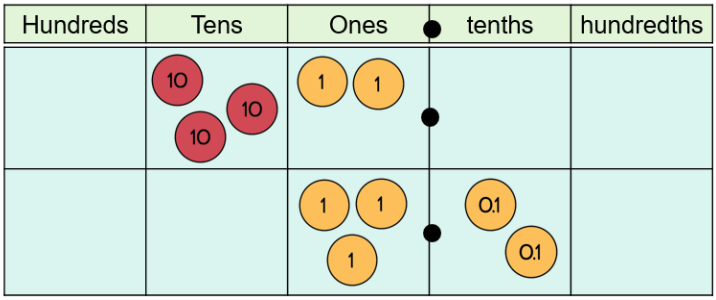
Describe the relationships between the counters.



There are ____ ones and _____ tenths.

___ ones ÷ 10 = _____.

This is _____ as a decimal or — as a fraction.



The value shown on the top row is _____

The value shown on the bottom row is _____

_____ ÷ 10 = _____ _____ x 10 = _____

Hundreds	Tens	Ones	tenths	hundredths
	10 10	1	0.1 0.1 0.1 0.1	
		1 1	0.1	0.01 0.01 0.01 0.01

The value shown on the top row is _____

The value shown on the bottom row is _____

_____ ÷ 10 = _____ _____ x 10 = _____

Draw the counters to show this number divided by 10.

Hundreds	Tens	Ones	tenths	hundredths
100	10 10 10 10		0.1 0.1	

The value shown on the top row is _____

The value shown on the bottom row is _____

_____ ÷ 10 = _____ _____ x 10 = _____

Draw the counters to show this number divided by <u>100</u>.

Hundreds	Tens	Ones	tenths	hundredths
100	10 10 10	1 1		

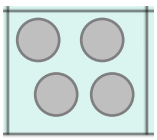
The value shown on the top row is _____

The value shown on the bottom row is _____

_____ ÷ 10 = _____ _____ x 10 = _____

APPLY AND EXPLORE

Kelsey started with **4 counters** in **a coloumn** of the place value grid:
She multiplied <u>or</u> divided her number by 10 <u>or</u> by 100.
What could her numbers have been?



Write as many possible calcuations as you can. One is done for you:
4 ÷ 10 = 0.4

APPLY AND EXPLORE

Think about everyday life. When is it useful to multiply and divide by 10 or 100?