	Name			
Notes and Examples			Ν	/lath 6
Long Division - Decimals			F	Period
		D ivide into.	?	
Don't forgetDMSB.		M ultiply		
Ducks Must Swim Backwards		S ubtract B ring		Quotient
Down		5	Divisor	Dividend

Dividing Decimal Numbers.....

COMPARE and CONTRAST

What's the Same?	What's Different?			
We follow the same		We need to make sure the is whole. (x by 10's to move the point)		
We can answer to help us.	the	We need to move the decimal straight up in the quotient.		
We need to bev our work to avoid possible mistakes.	with	We need to after the decimal point in the dividend until it		
		or can be ➡		

(Think)	about these	problems at are the answers?
10÷5	100:50	1000 ÷ 500

You can multiply **BOTH** numbers in a division problem by _____ and still get the same answer!

Long Division - Decimals

Ex 1.

Is the divisor whole? Y / N ?

If so....multiply by tens to move both of the points

Then, move the point straight up from wherever it is.

Ex 2.

Is the divisor whole? Y / N ?

If so....multiply by tens to move both of the points

Then, move the point straight up from wherever it is.





This division problem...

Terminates / Repeats / Continues on...

This division problem...

Terminates / Repeats / Continues on...

Long Division - Decimals

I needed to annex zeros. Y / N

Ex 3. Is the divisor whole? Y / N ?

If so....multiply by tens to move both of the points

Then, move the point straight up from wherever it is.

I needed to annex zeros. Y / N

Ex 4. Is the divisor whole? Y / N ?

If so....multiply by tens to move both of the points

Then, move the point straight up from wherever it is.



Now, follow the normal steps for LONG DIVISION. Don't forget ${\ensuremath{\mathsf{D}}}$ ${\ensuremath{\mathsf{M}}}$ ${\ensuremath{\mathsf{S}}}$

B!



This division problem...

Terminates / Repeats / Continues on... needs rounding This division problem...

Terminates / Repeats / Continues on... needs rounding

Long Division - Decimals

I needed to annex zeros. Y / N

I needed to annex zeros. Y / N



Don't forget to beware of "double bringdowns" when your divisor **DOES NOT** go into a number formed **after** you bring down. If this happens, put a zero in your quotient and either bring down the next number or annex a zero. Continue until the quotient terminates, repeats, or passes the place you are rounding to. (typically the thousandths)



This division problem	This division problem				
Terminates / Repeats / Continues on needs rounding	Terminates / Repeats / Continues on needs rounding				
I needed to annex zeros. Y / N	I needed to annex zeros. Y / N				
I had a double bring down Y / N and needed to place a	I had a double bring down Y / N and needed to place a				

Long Division - Decimals

zero in my quotient

zero in my quotient



I needed to annex zeros. Y / N

I had a double bring down Y / N and needed to place a zero in my quotient

and needed to place a zero in my quotient

I needed to annex zeros.

I had a double bring down

Y / N

Y / N





Long Division - Decimals



