$\qquad$

Notes and Examples
Long Division - Decimals

Math 6
Period $\qquad$

Don't forget...DMSB.

Ducks Must Swim Backwards Down

Divide into...?
Multiply
S ubtract
B ring
Divisor $\longdiv { \text { Dividend } }$

Dividing Decimal Numbers......

COMPARE and CONTRAST



You can multiply BOTH numbers in a division problem by $\qquad$ and still get the same answer!

## Notes and Examples

## Ex 1.

Is the divisor whole? $\mathrm{Y} / \mathrm{N}$ ?

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.

Now, follow the normal steps for LONG DIVISION. Don't forget

This division problem...

Terminates / Repeats / Continues on...

This division problem...

Terminates / Repeats / Continues on...

## Notes and Examples

## Long Division - Decimals

I needed to annex zeros. $\mathrm{Y} / \mathrm{N}$

## 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. $\mathrm{Y} / \mathrm{N}$

## 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 D M S
B!


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

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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)

Ex 5.
Is the divisor whole? Y/N ?


Ex 6.
Is the divisor whole? $\mathrm{Y} / \mathrm{N}$ ?

## 

 $82.814 \div 2.4$,This division problem...
Terminates / Repeats / Continues on... needs rounding

I needed to annex zeros. $\mathrm{Y} / \mathrm{N}$
I had a double bring down $\quad \mathrm{Y} / \mathrm{N}$ and needed to place a

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

I needed to annex zeros. $\mathrm{Y} / \mathrm{N}$
I had a double bring down $\mathrm{Y} / \mathrm{N}$ and needed to place a

## Ex 7.



This division problem...
Terminates / Repeats / Continues on... needs rounding
I needed to annex zeros. $\mathrm{Y} / \mathrm{N}$
I had a double bring down $\mathrm{Y} / \mathrm{N}$ and needed to place a zero in my quotient

## Ex 8.

$$
43.2 \div 1.1
$$

This division problem...
Terminates / Repeats / Continues on... needs rounding
I needed to annex zeros. $\quad \mathrm{Y} / \mathrm{N}$
I had a double bring down $\quad \mathrm{Y} / \mathrm{N}$ and needed to place a zero in my quotient

## More Practice Space:

Notes and Examples
Long Division - Decimals

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