

# OCTOBER 28, 2014 <sup>1st</sup> <sub>2nd</sub>

## Starter:

Halloween was almost over, and Mr. Green had less than 20 candies left. When the doorbell rang, he thought he would give all the candies away.

When he opened the door, there were two trick or treaters. He wanted to give away the candies evenly, but he noticed that when he divided the candies in two, there was one left over.

At that point, he saw another trick or treaters behind the first two. He tried to divide the candies evenly among the three of them, but again one was left over.

Finally, another trick or treaters came to his door, making it four trick or treaters altogether. Mr. Green still had one candy left over after dividing the left over candies in fours.

How many candies did Mr. Green have left when the doorbell rang?



## 10/28 Multiplying/Dividing Rational Numbers

**MULTIPLYING DECIMALS:**  $(-4.3)(7.08)$

What do you do with the decimal when you set up the problem?

Nothing!

But, put the longer # on top.

$$\begin{array}{r} 7.08 \\ \times -4.3 \\ \hline 2124 \\ 2832 \\ \hline 30444 \end{array}$$

What do you do with the decimal in the answer?

"Count them up"

Discuss these 3 questions with your partners...

Why should you never use a "dot" for multiplying with decimals?

$$-8.4 \cdot 2.7$$

Confusing!  
dots look like  
decimals



Use ( )!

Where is the decimal in a whole number?

$$(-2.68)(-9)$$

At the end!!!

$$9.0 \text{ is } 9$$

$$.9 \text{ is } \frac{9}{10}$$

What if you run out of numbers in the answer?

$$(0.012)(-0.75)$$

$$\begin{array}{r} 0.012 \\ \times -0.75 \\ \hline \end{array}$$

60

84

$$\hline - .00900$$

Add 0's in the  
FRONT

Compute these products:

$$(-0.\underline{7})(-0.\underline{0}\underline{1}\underline{2})$$

$$\begin{array}{r} -0.\underline{0}\underline{1}\underline{2} \\ \times -0.\underline{7} \\ \hline .\underline{0}\underline{0}\underline{8}\underline{4} \end{array}$$

$$.\underline{0}\underline{0}\underline{8}\underline{4}$$

$$(2.005)36$$

$$\begin{array}{r} 2.\underline{0}\underline{0}\underline{5} \\ \times 36 \\ \hline 12030 \\ 6015 \\ \hline 72.\underline{1}\underline{8}\underline{0} \end{array}$$

**DIVIDING DECIMALS by**  
**WHOLE NUMBERS:**

How do you set up the problem?

bottom) top

What do you do with the decimal in the answer?

Bring it up!

$$\begin{array}{r} \underline{13.41} \\ -9 \\ \hline -1.49 \\ \hline 9 \overline{) 13.41} \\ \underline{-9} \\ 44 \\ \underline{-36} \\ 81 \\ \underline{-81} \\ 0 \end{array}$$

## **DIVIDING DECIMALS by DECIMALS:**

How do you set up the problem?

bottom  $\overline{)$  top

What do you do with the decimal before you work the problem?

"move it - move it!"

$$\begin{array}{r} 47.22 \times 10 \\ - 0.3 \times 10 \\ \hline - 1574 \\ \hline - 0.3 \overline{) 47.22} \\ \underline{3} \phantom{00} \\ 17 \phantom{00} \\ \underline{15} \phantom{00} \\ 22 \phantom{00} \\ \underline{21} \phantom{00} \\ 12 \phantom{00} \\ \underline{12} \phantom{00} \\ 0 \phantom{00} \end{array}$$





Discuss these 3 questions with your partners...

What should you do if you run out of numbers before you are done?

$$\begin{array}{r} 4.125 \\ -0.8 \\ \hline -5.15 \\ -0.8 \overline{) 4.1250} \\ \underline{40} \\ 12 \\ \underline{-8} \\ 45 \\ \underline{-40} \\ 50 \end{array}$$

Annex 0's

What do you do if the answer repeats?

$$\begin{array}{r} -0.56 \\ -1.5 \end{array}$$

Write a bar over the repeating part

What do you do if you can't get to the end?

$$\begin{array}{r} -7.5 \\ 4.9 \end{array}$$

Depends on the problem!  
Read the Directions! ☺

**Find these quotients:**

$$\frac{-5.22}{-6}$$

$$-630 \div 0.15$$

$$-0.0371 \div (-0.7)$$

$$0.15 \overline{) 63000}$$



HOMERWORK

Pink WS5

DOUE Thursday