



30, 2014

4<sup>th</sup>

Starter:

3pt each - I work, I answer, I right

1.  $27 \times 4$

$$\begin{array}{r} 27 \\ \times 4 \\ \hline 108 \end{array}$$

7, 8, 9  $\rightarrow$  2

4, 5, 6  $\rightarrow$  1

2.  $367 \times 15$

$$\begin{array}{r} 367 \\ \times 15 \\ \hline 1835 \\ + 3670 \\ \hline 5505 \end{array}$$

3.  $803 \times 62$

$$\begin{array}{r} 803 \\ \times 62 \\ \hline 1606 \\ 48180 \\ \hline 49786 \end{array}$$

## 10/30 Multiplying/Dividing Rational Numbers

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

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

Nothing!

Line them up at the right

$$\begin{array}{r} 7.\overset{3}{0}8 \\ \times 4.3 \\ \hline 2124 \\ 2832 \\ \hline -30444 \end{array}$$

What do you do with the decimal in the answer?

Count the #'s behind the decimal

## Discuss these 3 questions with your partners...

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

$$-8.4 \cdot 2.7$$

It looks like a decimal



Use ( ) instead.

Where is the decimal in a whole number?

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

after it!

What if you run out of numbers in the answer?

$$(0.012)(-0.75)$$

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

$$\begin{array}{r} \phantom{0.}060 \\ \phantom{0.}840 \\ \hline -0.00900 \end{array}$$

Add 0's at the front!

Compute these products:

$$\begin{array}{r} (-3.5)(12) \\ -3.5 \\ \times 12 \\ \hline 70 \\ + 350 \\ \hline -420 \end{array}$$

$$\begin{array}{r} (2.005)36 \\ 2.005 \\ \times 36 \\ \hline 12030 \\ 60150 \leftarrow \text{place holder} \\ \hline 72.180 \end{array}$$

$$\begin{array}{r} (-0.7)(-0.012) \\ -0.012 \\ \times -0.7 \\ \hline .0084 \end{array}$$

$$\begin{array}{r} 2.4(-13.1) \\ -13.1 \\ \times 2.4 \\ \hline 1524 \\ + 2620 \\ \hline -31.44 \end{array}$$



WS8 - green

DOE Monday