## I can multiply and divide decimals.

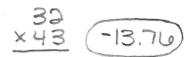
Multiplying Signed Decimals

Multiply the numbers, ignoring the <u>decimals</u> at first.

Use \_\_\_\_\_ rules to determine sign of product.

Count up the number of digits behind the <u>decimals</u> in the original problem. This will be the number of digits behind the decimal in the <u>answer</u>.

1.  $3.2 \cdot (-4.3)$ 



(-4.32)(-2.7)



3.  $0.12 \cdot (-3.1)$ 

x31 (-0.372)

4. (-0.2)(-1.4)



## **Multiple Numbers**

1) 2.1 · (-4.9)(3)

-30.87

2) -1.6(2.5)(-1.8)

7.2

3) -2(4.5)(12.8)

## **Dividing Signed Decimals**

Move decimal point in divisor to the right to make it a whole number.

Move the decimal point in the dividend the same amount to the right; then place on top.

Divide as normal, using \_\_\_\_\_ rules to determine sign of quotient.

1. 
$$25.2 \div (-0.2)$$

2. 
$$-7.29 \div (-9)$$

3. 
$$-1.15 \div 0.5$$



4.  $4.20 \div (-0.07)$ 

## **Multiplying and Dividing Decimals Word Problems:**

1) Benjamin bought 12 goldfish. Each goldfish cost \$0.98. How much did Benjamin spend?

2) For a fundraiser, the seventh grade class sells 45 submarine sandwiches. They collect a total of \$150.75. What is the cost per sub?

3) Ten members of the Science Club went to a history museum. It cost \$7.25 for each member of the club. If 90 members went to the museum, how much would the total cost be?

4) There are 5 pink gumballs in a gumball machine at the mall. All together, the gumballs weigh 1.71 ounces. What is the weight of each gumball?