Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**THIS HOMEWORK IS DUE BY: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

Weekly Homework 8 Mrs. Zunich

1. Rewrite the following into proper scientific notation.

**\*Remember:** If you move to the **LEFT**, you **ADD** to the power. If you move to the **RIGHT**, you **SUBTRACT** the power.

1. $660×10^{5}=\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_\\_$
2. $.002×10^{-4}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. $.0765×10^{9}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. $825,000 ×10^{-12}=$\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Convert the following values from standard form to scientific notation.

a) 5,630,000 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) 0.0028 = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Convert the following values from scientific notation to standard form.
2. $4.19 × 10^{-7}$= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. $5.702 ×10^{5}$= \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Identify the legs, a and b, and the hypotenuse, c, of the right triangles below.

 13 feet

A=\_\_\_\_\_\_\_\_

B=\_\_\_\_\_\_\_\_

C=\_\_\_\_\_\_\_\_\_

 5 feet

 12 feet

 

A=\_\_\_\_\_\_\_\_

B=\_\_\_\_\_\_\_\_

C=\_\_\_\_\_\_\_\_\_

1. Simplify.

(2.6 x 1030)(1.2 x 1017) $ \frac{15.3 ×10^{9}}{9 ×10^{-9}}$

1. REFLECTION: Circle the picture that best describes how YOU feel about changing multiplying values in scientific notation.

