



## Measurement HW #2

name

A piece of unknown metal is determined to have a volume of 84.6 mL and a total mass of 752.94 grams. Which metal could it be? Write the formula first and use ALL units!!! Watch out for SF!

Convert 114°C to Kelvin, using a formula or it's wrong.

Convert 28.0°C Kelvin, using a formula or it's wrong.

Convert 370. Kelvin to centigrade. Write a formula or it's wrong.

Convert 239 K to °C also. Write a formula, or it's wrong.

Write a word, or short sentence, using just the element symbols from the periodic table.  
For example: TeAcHEr is made from elements #52, 89, 1, and 68. 3 letters total = try harder.

# Measurement HW #3

name:

$$\begin{array}{r} 4.0 \times 10^4 \\ \times 6.0 \times 10^5 \\ \hline \end{array}$$

$$\begin{array}{r} 4.8 \times 10^3 \\ \times 2.2 \times 10^2 \\ \hline \end{array}$$

$$\begin{array}{r} 1.4 \times 10^{-5} \\ \times 5.67 \times 10^{-6} \\ \hline \end{array}$$

$$\begin{array}{r} 5.60 \times 10^{12} \\ \times 7.102 \times 10^4 \\ \hline \end{array}$$

$$(6.0 \times 10^{15}) \div (4.0 \times 10^4) =$$

$$(3.40 \times 10^5) \div (2.1 \times 10^2) =$$

$$(3.04 \times 10^5) \div (9.89 \times 10^2) =$$

What is the “teapot” adjustment?  
Write a number that needs an adjustment,  
and then adjust it properly.

# Measurement HW #4

name:

1 You measure your height to be 68.4 inches, but your teacher wants you to convert that using dimensional analysis into MILES. (this is a small decimal number) Use the units I gave you - stay off of the internet!

2 You watched the women's marathon Olympic race and realized your true calling. You want to run so you get to wear the cute wreath on your head when you finish so you start training!  
Convert 26.2 miles into millimeters using proper sig figs. (this is a giant number)

3 A swimming pool contains 379,300 gallons of water. How many milliliters of water is that? (a lot!)  
(0.946 Liters = 1 quart)