#### **Today:**

- 1) HW check
- 2) Aluminum foil experiment
- 3) Start the homework

# Purpose:

Day 2 of practicing Dimensional Analysis.

### **WARMUP:**

## Calculate and round to correct sig figs:

$$\frac{(8.22 \times 10^{-16})}{1} * \frac{(7.45 \times 10^{4})}{(5.8 \times 10^{-6})} =$$

answer:  $1.1 \times 10^{-5}$ 

#### announcements

Memorize more elements for Friday. See the website. After Friday you will never be tested on element names.

We're in the computer lab Thursday.

Stand up for extra credit if you wore a toga

mark-it-up conversion factors

East H. S. CA3MIs+ry

Mr. Genest



Tutors! Adults! Help this young chemist by visiting http:genest.weebly.com with any smart phone

Step One: Underline the starter unit (the unit that is not paired Step One: Underline the starter unit (the unit that is not with another unit. Circle pairs of units. Draw a box around paired with another unit. Circle pairs of units. Draw a the goal unit. box around the goal unit. What is the volume in cm3 of 400. grams If thorium is 11.7 grams per mL, of ethanol? Ethanol has a density of what is the mass of 35.2 mL of thorium? (This is the question from 0.789 g/mL. (This was on last week's cowboy sheet) last week's quiz) Step Two: Write down the important into here. Step Two: Write down the important into here. What's the starter number? What's the starter number? 35.2 mL 00 grans What is the goal unit? What is the goal unit? 9 rams Write all the 'for every' statements that will make Write all the 'for every' statements that will make useful conversion factors. useful conversion factors. for every 11.79 rams there For every | cm3 of ethanol there are 0.789 sams Step Three: Solve below using dimensional analysis. Step Three: Solve below using dimensional analysis. Write Write words before you write numbers. words before you write numbers.

#3 Step One: Underline the starter unit (the unit that is not copper(g) 70paired with another unit. Circle pairs of units. Draw a O aluminum (g) box around the goal unit. 60 Pearl is planning a party for the defensive team of 50 (B) ssaw 30. the Wisconsin Badgers (11 people). She wants to order enough lasagna so that every player can have 5 pieces. When she calls the restaurant, they tell her that a large lasagna is cut into 9 pieces and costs 634 18. How much money will 10 Pearl need in order to feed all of her guests? Step Two: Write down the important into here. What's the starter number? Volume (mL) Step One: Underline the starter unit (the unit that is not paired people with another unit. Circle pairs of units. Draw a box around the goal unit. What will be the mass in grams of a 842 mL aluminum unicorn? You need to find slope from the above graph to make a conversion factor. Step Two: Write down the important info here. What's the starter number? Write all the 'for every' statements that will make useful conversion factors. For every lasagna there are 34.18 dollars. What is the goal unit? 9 rans Write all the 'for every' statements that will make useful conversion factors. Strategy: You will need the Step Three: Solve below using dimensional analysis. slope from the above graph. Write words before you write numbers. Step Three: Solve below using dimensional analysis. Write ords before you write numbers.