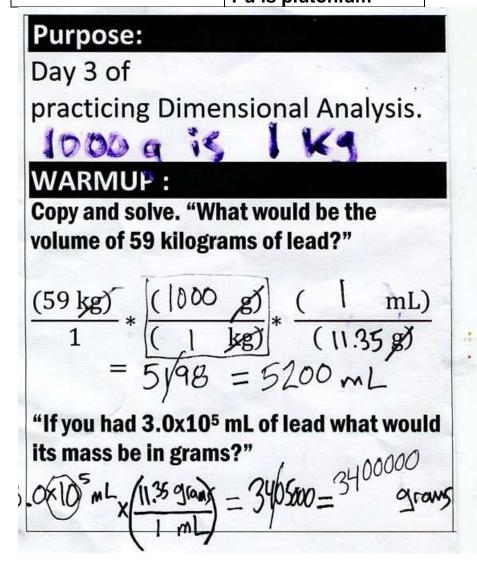
Here's the list of elements to memorize for Friday.

Less than half of the quiz will be element questions.

Cr is chromium	Sn is tin
Mn is manganese	Pb is lead
Fe is iron	Ag is silver
Ni is nickel	Au is gold
Cu is copper	Hg is mercury
Zn is zinc	Sr is strontium
Br is bromine	Ba is barium
I is iodine	U is uranium
	Pu is plutoniun



Today: 1) HW check 3)Team Lift

2)5 minute challenge: Each pod solves

a problem live at the board

Expect some questions likethis Friday:

	10D INE
Au	
Ag	
	lead
Sn	
	icon

Don't hand this in. Keep it as class notes.

October 7, 2015.

- 1. If there are 2.54 cm in 1.00 inche, How many feet are in 613.2 cm?
- 2. If there are 2.54 cm in 1.00 inche, how many yards is 75.3 cm?
- 3. How many seconds are there in 7.3 hours?
- 4. If there are 5280 feet in 1.00 mile, how many miles are in 60.5 inches?
- 5. How many centimeters are in 3.9 miles?
- 6. Julia is planning a party for 15 people. She wants to order enough pizza so that every person can have 4 slices. When she calls the pizza place, they tell her that a large pizza is cut into 12 slices and costs \$14.78. How much money will Julia need in order to feed all of her quests?
- 7. The moon is 250,000 miles away. How many feet is it from earth If There are 5280 feet in 1.00 mile
- 8. If a swimmer swims 85.4 yards in five minutes, how many feet will she swim in 70.0 seconds?

Don't hand this in. Keep it as class notes.

October 7, 2015.

Step One: Underline the starter unit (the unit that is not paired with another unit. Circle pairs of units. Draw a box around the goal unit.

What is the volume of a 5.77x10⁶ gram piece of tin? You may need a table from Page 2. (BTW, Do you know the symbol for tin for this Friday's quiz?)

Step Two: Write down the important info here.

What's the starter number?

What is the goal unit?

Write all the 'for every' statements that will make useful conversion factors.

<u>Step Three</u>: Solve below using dimensional analysis. Write words before you write numbers.

$$5.77 \times 10^{+6} \text{g}_{\times} \left(\frac{1}{7.31} \right) = \frac{7.89 \times 10^{-2}}{10.53}$$

#2

Step One: Underline the starter unit (the unit that is not paired with another unit. Circle pairs of units. Draw a box around the goal unit.

There are 30.48 cm in 1.000 feet and there are 5280 feet in one mile. What would be the mass, in grams, of 2.00 cubic miles of iron?

Step Two: Write down the important into here.

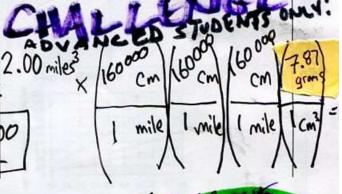
What's the starter number?

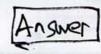
What is the goal unit?

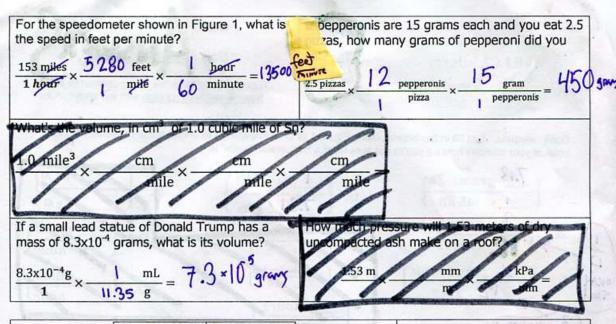
Write all the 'for every' statements that will make useful conversion factors.

For every | mile there are 160000 cm.

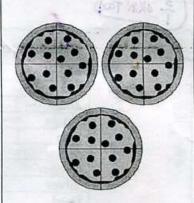
Step Three: Solve below using dimensional analysis. Write words before you write numbers.





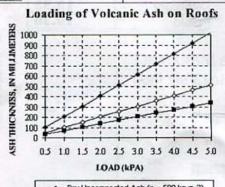


Substance	Density
A CONTRACTOR OF THE CONTRACTOR	(g/mL)
Aluminum	2.70
Titanium	4.54
Zinc	7.13
Tin	7.31
Iron	7.87
Nickel	8.90
Copper	8.96
Silver	10.50
Lead	11.35
Mercury	13.55
Gold	19.30



There are 5280 feet in 1.00 mile (3 sig figs)





--- Dry Uncompacted Ash (p = 500 kg m-3)

Using units correctly

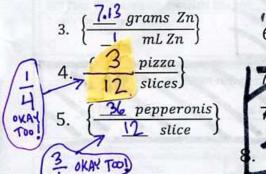
EHS CA3mIs+ry
Mr. Genest

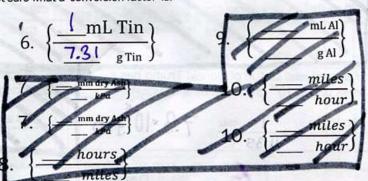


Name Date ANSWELS

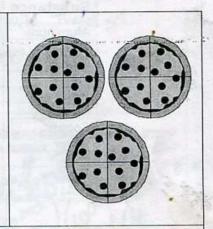
Tutors! Adults! Help this young chemist by visiting http:genest.weebly.com with any smart phone

Don't calculate. Just fill in the blanks, using Figure 1 or prior knowledge to create some conversion factors. Look at your Monday notes if you're not sure what a 'conversion factor' is.



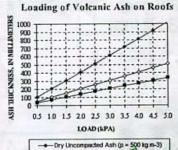


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There are 5280 feet in 1.00 mile (3 sig figs)





-- Dry Uncompacted Ash (p = 500 kg m-3)
-- Dry Compacted Ash (p = 500 kg m-3)
-- Wet Compacted Ash (p = 500 kg m-3)