## Chapter 1 and 2 Review

Give the number of sig figs for each value:

45.07

0.00356

7000

700.

4

3

1

3

100.0

3.00 X 10<sup>5</sup>

9659

6.0 X 10<sup>-9</sup>

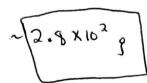
4

3

4

2

Calculate the following problems:



3

A rock has a mass of 245g and a volume of 60cm<sup>3</sup>. What is its density?

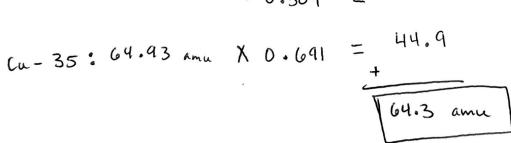
$$D = \frac{m}{V} = \frac{2459}{60 \text{ cm}^3} = 4.08$$

An object with a mass of 25.3g is placed in water. The volume of the water started at 15.0 mL. When the object was added, the ending volume was measured at 18.0 mL. What is the density of the object?

The density of acetone is 0.784g/mL. If acetone has a mass of 142g, what is its volume of the liquid in liters?

V= 3L

Copper-63 has an atomic mass of 62.93 amu and a percent abundance of 30.9%. Copper-35 has an atomic mass of 64.93 amu with a percent abundance of 69.1%. What is the average atomic mass?



Determine the number of protons, neutrons, and electrons in the following elements:

$$n=12$$
  $e^{-}=10$ 

Name the following compou	ands:	5n2+ C1-
NaNO <sub>3</sub>	CaI <sub>2</sub>	SnCl <sub>2</sub>
Sodium nitrate	Calcium jodide	Tin (II) chloride
SnO <sub>2</sub>	$N_2H_4$	× NH <sub>4</sub> Cl
Tin (IV) oxide	dinitrojen tetrahydride	ammonium chloride
$P_2O_5$	H <sub>3</sub> PO <sub>4</sub> -ate > -ic	HBr -ide → hydro + -ic
diphosphorus pentaoxide	Phosphoric acid	hydrobromic acid
Pentoxide		
Give the chemical formula f	For the following compounds: $\mu + \rho_{0u}^{3}$	N12+ SO42-
sodium chloride	potassium phosphate	nickel (II) sulfate
Nacl	16 3 PO4	Nisoy
Lit 5 <sup>2-</sup> lithium sulfide	diphosphorus pentasulfide	chlorine trifluoride
Li <sub>2</sub> S	P255	CIF3
$c_{0}^{2+}$ $c_{0}^{2-}$	chlorate chloric acid	nitrous acid
copper (11) carbonate	-icate	-ous → -ite
Lu CO 2	216 -3 -417 -	in theil a

HC103

Lu CO3

C103 NO2

nitrite

HNO2