Name:	Date:
Pre-AP Chemistry – Mr. McKnight – Per Mole Conversion Worksheet #1	
Write answer in space provided. Show your work beneath each problem. (No work = no credit!) You must use dimensional analysis to work these problems. Round using sig figs.	
1. 6.02×10^{23} seconds = years	
2. 7.22 gills = fesh (2.5 fesh = 12.25 evos; 0.78 evos = 19.43 graks; 11.2 gills = 2.4 zeds; 3 X 10 ⁻² graks = 23 zeds)	
3. 64.1 g of sulfur = moles of sulfur =	_ atoms of sulfur.
4. 4.25 moles of carbon = grams of carbon =	atoms of carbon.
5. 5.22 X 10 ²⁴ atoms of helium = grams of helium =	moles of helium.
6. 45.2 grams of copper = moles of copper = a	atoms of copper.
7. Hydrogen gas is H ₂ . 1.00 moles of hydrogen gas would contain	hydrogen atoms.
8. Which contains more atoms?a. 3 moles of zinc.	
b. 3 moles of silver.c. 36 grams of carbon.	
d. 12 grams of helium.	
e. All contain the same number of atoms.	
9. Which has the most mass? a. 3 moles of zinc.	
b. 3 moles of silver.	
c. 36 grams of carbon. d. 12 grams of helium.	
e. All have the same mass.	
10. Which contains the most moles?	
a. 12.0 grams of carbon.	
b. 4.00 grams of helium.c. 16.0 grams of oxygen.	
d. 18.0 grams of beryllium.	
 e. All contain the same number of moles. 	