Name: 10/05/08
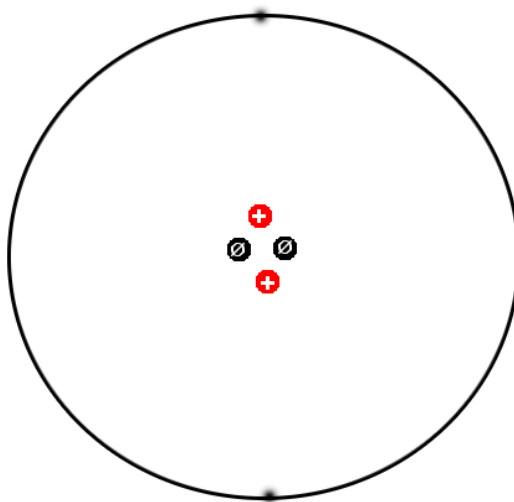
Assignment #11: Introduction to Moles

1. Label the parts of the Atom below. Which atom does this most closely correspond to?

2. A square from the periodic table is shown here. Label each piece of information that is found in this square.

74
W
Tungsten
183.84

3. One mole is equal to what number?

4. Find the atomic symbol or formula and molar mass for each of the following:

a. Lithium   e. Iron

b. Phosphorous   f. Carbon Dioxide

c. Silicon   g. Sodium Chloride

d. Lead   h. Water

6. How many Moles of Iron are present in a 5,000 g iron frying pan?

7. What is the mass of 13 moles of Arsenic?

8. A piece of lead pipe has a mass of 2,500 g.
  a. How many moles of lead are present?

  b. How many atoms of lead is this equivalant to?

9. What is the mass of 5.0 x 10^{24} atoms of chromium?

10. How many atoms would it take for a piece of Nickle to have a mass of 3 grams?

11. How many atoms are present in a 57 gram sample of arsenic?