**Tour Around the Periodic Table**

1. What element has 82 electrons? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What element has the symbol W? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Name the transition metal that has 76 protons: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. How many rare non-metals are listed on the table? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Name 6 metalloids: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. List the members of family (Group) one and the name of the family. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. The elements with an atomic number of 4, 12, 20 and 38 all have what in common? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Draw a Bohr model for Ar-40 below.
4. What is the chemical symbol for Fermium? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. Name the element for the following symbols:

Ge \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ S \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cd \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ C \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Au\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Ca\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Cu\_\_\_\_\_\_\_\_\_\_\_\_\_\_ H\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Ni\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pb\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Fe\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. In group 13, what element has both properties of metal and nonmetal? \_\_\_\_\_\_\_\_\_\_\_
2. Give the atomic mass for:
   1. Ca \_\_\_\_\_\_\_\_\_ Cl \_\_\_\_\_\_\_\_\_\_\_\_\_ O \_\_\_\_\_\_\_\_\_\_\_
3. Name the elements of period one: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Which element has 80 electrons? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What do Cobalt, Ca and V all have in common? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Complete the following for **Neon 20**:

Atomic Symbol \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Number of electrons \_\_\_\_\_\_\_\_\_\_\_

Atomic Mass \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Group Name \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ Valence electron count \_\_\_\_\_\_\_\_\_\_\_

1. What do all Actinide series elements have in common? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_