

Name: _____
Per: _____

Bonding Intro Homework Assignment

1. Underline the atom in each of the following pairs that has the lower electronegativity.

- a. Li-Na b. Cs-Rb c. Cs-Ba d. Cl-Br e. Fe-Ni f. S-Cl

2. List four general characteristics of compounds that have ionic bonds.

- a. _____
b. _____
c. _____
d. _____

3. Classify the bonds between the following pairs of atoms as ionic (I) or covalent (C).

- _____ a. Sr-Cl
_____ b. N-O
_____ c. K-F
_____ d. S-O
_____ e. Ba-Cl
_____ f. Mg-O

4. List three general characteristics of compounds formed by covalent bonds.

- a. _____
b. _____
c. _____

5. List three characteristics of metals.

- a. _____
b. _____
c. _____

6. How does the bonding of 2 metal atoms differ from the bonding of 2 nonmetal atoms?

7. Predict whether the following bonded atoms will form salts (S) or molecules (M).

- a. fluorine and hydrogen
- b. hydrogen and oxygen
- c. sodium and chlorine
- d. silicon and oxygen
- e. carbon and phosphorus
- f. hydrogen and sulfur
- g. iodine and sodium
- h. beryllium and oxygen

8. Explain why ionic compounds are electrically neutral.
