Follow-Up Questions:

1. Do metals form anions or cations?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What is the charge for all elements in Group 1A? \_\_\_\_\_\_\_\_\_

What is the charge for all elements in Group 2A? \_\_\_\_\_\_\_\_\_

What is the charge for all elements in Group 7A? \_\_\_\_\_\_\_\_\_

How does the charge for the elements in each group relate to the number of valence electrons? Explain.

1. Can an ionic compound ever consist of a cation-cation or anion-anion bond? Explain.
2. When naming a binary ionic compound, which ion is written first? What ending do you use to represent anions?
3. What is the overall charge of ionic compounds? Explain why in terms of electrons.
4. Do you notice a pattern in the charges on the cation and/or anion and the subscripts in the formula? Explain the pattern.
5. What is the significance of the Roman Numerals that appear in the names of some cations?
6. What group of elements require Roman Numerals? Explain why the Roman Numerals are necessary.
7. Write formulas and names for the following sets of elements:

Formula Name

Barium and oxygen \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Sodium and nitrogen \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Beryllium and bromine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Gallium and iodine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Iron (III) and selenium \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_