

Ions, Cations, Anions

1. The bonds in a covalent compound are due to the sharing of _____.
2. The bonds in an ionic compound are due to _____ charges.
3. An ion is a _____ species.
4. A cation is _____ charged.
5. An ion is _____ charged.

6. Indicate the charges on the following if they are to become cations.

Mg Na K Al Ba

7. Indicate the charges on the following if they become anions.

O F S N P

8. If an atom loses 2 electrons it becomes a(n) _____. Write the symbol for the calcium ion.

9. An atom in the third period of the periodic table gains 2 electrons. What is the symbol for this ion?

10. The neutral transition element, cobalt has _____ protons and _____ electrons. What is the symbol of the cobalt ion if it loses 2 electrons?