

Ions, Cations, and Anions

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

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



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



8. If an atom loses 2 electrons it becomes a(n) cation. 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?

