

Skills Worksheet

**Concept Review Chapter 5: Section 1**

**Section: Simple Ions**

Complete each statement below by choosing a term from the following list. Terms may be used more than once.

- |    |    |       |        |
|----|----|-------|--------|
| 10 | 11 | ion   | octet  |
| 12 | 13 | anion | cation |

1. An atom or group of atoms that has a positive or negative electric charge because it has lost or gained electrons is a(n) ion.
2. The sodium ion has 11 protons, 12 neutrons, and 10 electrons.
3. In most chemical reactions, atoms tend to match the outer electron configuration of the noble gases. This is called the octet rule.

Complete each statement below by writing the correct term or phrase.

4. An anion is an ion with a negative charge.
5. Valence electrons occupy the outermost energy level of an atom.
6. The chloride ion and the chlorine atom have different electron configurations.
7. A cation is an ion with a positive charge.
8. Many stable ions have an electron configuration of a noble gas.

Answer the following questions in the space provided.

9. How do the outer-shell electron configurations for ions of Group 1, Group 2, and Group 15, Group 16, and Group 17 elements compare with those of the noble gases?  
They are the same. Group 1 + 2 ions have noble gas configuration of previous row. Group 15, 16 + 17 ions have noble gas configuration in their row.

# Holt Chemistry Concept Review Answers Chap 10

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