

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.

Answers To Holt Chemistry Section 1 Review

Gary Wulfsberg

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Answers To Holt Chemistry Section 1 Review:

Holt Chemistry Ralph Thomas Myers, 2004 **Modern Chemistry** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001 *Holt Chemistry* Holt Rinehart & Winston, 2003-01-24 **Foundations of Inorganic Chemistry** Gary Wulfsberg, 2017-11-02

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Fundamentals of Chemistry Third Edition introduces the reader to the fundamentals of chemistry, including the properties of gases, atomic and molecular weights, and the first and second laws of thermodynamics. Chemical equations and chemical arithmetic are also discussed, along with the structure of atoms, chemical periodicity, types of chemical bonds, and condensed

states of matter This book is comprised of 26 chapters and begins with a historical overview of chemistry and some terms which are part of the language of chemists Separation and purification are covered in the first chapter while the following chapters focus on atomic and molecular weights stoichiometry the structure of atoms and types of chemical bonds The molecular orbital MO theory of bonding galvanic cells and chemical thermodynamics are considered next Separate chapters are devoted to MO theory of covalent and metallic bonding orbital hybridization intermolecular forces acids and bases ionic equilibrium calculations and polymers and biochemicals This monograph is intended for chemistry students

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Study and Problem Solving Guide to Accompany Principles of Modern Chemistry, Oxtoby/Nachtrieb Wade A. Freeman, 1986 **Chemistry and Industry Review**, 1960 *Memoirs of the Scientific Sections of the Academy of the*

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