Assessment Section Quiz

Section: Development of the Atomic Theory

Write the letter of the correct answer in the space provided.

- **1.** The smallest particle into which an element can be divided and still have the properties of that element is called a(n)
 - **a.** nucleus.
 - **b.** electron.
 - **c.** atom.
 - **d.** neutron.
- **2.** What particle did J. J. Thomson discover?
 - **a.** neutron
 - **b.** electron
 - **c.** atom
 - **d.** proton
- **3.** How would you describe the nucleus?
 - **a.** dense, positively charged
 - **b.** mostly empty space, positively charged
 - **c.** tiny, negatively charged
 - **d.** dense, negatively charged
 - **4.** Where are electrons likely to be found?
 - **a.** in the nucleus
 - **b.** in electron clouds
 - **c.** mixed throughout an atom
 - **d.** in definite paths
- ____ **5.** Dalton believed that
 - **a.** atoms of the same element are exactly alike.
 - **b.** most, but not all, substances are made of atoms.
 - **c.** atoms of different elements are the same.
 - **d.** atoms can be divided.

Assessment

Section Quiz

Section: The Atom

Match the correct definition with the correct term. Write the letter in the space provided.

- _____ **1.** particle in the nucleus with no electrical charge
- _____ **2.** mass of an atom expressed in atomic mass units
- **3.** keeps a nucleus with two or more protons from flying apart
- **4.** subatomic particle that has a positive charge
- **5.** atom that has the same number of protons as other atoms of the same element do but that has a different number of neutrons
- **6.** a unit of mass that describes the mass of an atom or molecule
- _____ **7.** represents the sum of protons in the nucleus of an atom
- **8.** enables a neutron to change into a proton and an electron in certain unstable atoms
- **9.** the sum of the protons and neutrons in an atom

Write the letter of the correct answer in the space provided.

- **10.** Every atom of a given element has the same number of
 - **a.** protons.
 - **b.** neutrons.
 - **c.** electrons.
 - **d.** isotopes.

- a. atomic number
- **b.** proton
- **c.** strong force
- **d.** neutron
- **e.** isotope
- f. mass number
- g. weak force
- h. atomic mass unit
- i. atomic mass