

Name _____

Date ____ / ____ / ____

ATOMS AND MOLECULES

Circle the letter of the correct answer.

1. A substance made up entirely of a single type of atom is which of the following?
a. Compound b. Enzyme c. Mixture **d. Element**
2. The smallest unit of any element is which of the following?
a. Atom b. Compound c. Molecule d. Enzyme
3. Different elements are chemically bonded together in _____.
a. Compounds b. Elements c. Mixtures d. Molecules
4. Fluorine is represented by which of the following chemical symbols? _____.
a. F b. Fe c. Fi d. Fl
5. The compound: $C_6H_{12}O_6$ contains how many atoms of oxygen?
a. 4 **b. 6** c. 12 d. 24
6. Which of the following is a compound?
a. Oxygen b. Gold **c. Sodium Chloride** d. Sodium
7. Two or more atoms are bonded together are referred to as a(n) _____.
a. Atom b. Element c. Mixture **d. Molecule**
8. When a chemical bond is broken, what is released?
a. Water **b. Energy** c. Salt d. Oxygen
9. How many compounds are shown in the chemical equation: $C + O_2 \rightarrow CO_2$
a. 1 b. 2 c. 3 d. 4
10. Which of the following terms refers to the smallest part of a compound that has all the properties of that compound?
a. Atom b. Cell c. Element **d. Molecule**
11. An atom which has 9 protons, 8 neutrons, and 9 electrons will have an atomic mass of how many amu?
a. 6 b. 8 c. 9 **d. 17**
12. An atom with an atomic number of 7 and a mass number of 14 is which element?
a. H **b. N** c. O d. P
13. Usually, the atom described in Problem 12 will have how many electrons?
a. 4 **b. 7** c. 8 d. 15
14. An atom of Magnesium has how many protons?
a. 12 e. 20 f. 24 g. 25
15. When an atom becomes a compound, a _____ forms.
a. Bond b. Electron c. Neutron d. Oxygen