

Lesson Quiz

Classifying Matter

Write the letter of the correct answer on the line at the left.

1. ____ A molecule is the smallest part of
A an element
B a compound
C a substance
D an atom
2. ____ A mixture of iron and sulfur can be separated by
A magnetic attraction
B distillation
C evaporation
D filtration
3. ____ Compounds are formed as a result of
A physical combination
B chemical combination
C distillation
D filtration
4. ____ The ratio of hydrogen atoms to sulfur atoms in sulfuric acid, H_2SO_4 is
A 2 to 4
B 1 to 2
C 2 to 1
D 1 to 4

If the statement is true, write *true*. If the statement is false, change the underlined word or words to make the statement true.

5. _____ Salad dressing is an example of a homogeneous mixture.
6. _____ The simplest type of substance is a(n) compound.
7. _____ When elements combine to form compounds, their properties do not change.
8. _____ The chemical symbol for water is H_2O .
9. _____ Substances in a mixture keep their own properties.
10. _____ The substances in a heterogeneous mixture can usually be seen and are easily separated.

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

- | | |
|--------------------------|--|
| 6. ___ atom | a. shows the elements and ratio of atoms in a compound |
| 7. ___ chemical bond | b. a group of two or more atoms held together by chemical bonds |
| 8. ___ molecule | c. a substance made of two or more elements chemically combined in a set ratio |
| 9. ___ element | d. a substance that cannot be broken down into any other substance |
| 10. ___ chemical formula | e. two or more substances together in the same place but not chemically combined |
| 11. ___ compound | f. the basic particle of any element |
| 12. ___ mixture | g. the force of attraction between two atoms |