

Name: _____

Matter Quiz

Directions: Circle the letter next to the term or phrase that best answers the question.

1. The state of matter in which a material has no definite shape and no definite volume is the _____ state.
 - a. Liquid
 - b. Solid
 - c. Gaseous
 - d. Elemental
2. The state of matter in which a material has no definite shape, but has a definite volume is the _____ state.
 - a. Liquid
 - b. Solid
 - c. Gaseous
 - d. Elemental
3. The particles in a solid are _____.
 - a. Very far apart.
 - b. Free to move independently.
 - c. Able to slide past each other.
 - d. Packed closely together.
4. Pure substances can be _____.
 - a. Elements.
 - b. Compounds.
 - c. Mixtures.
 - d. Both (a) and (b)
5. A sample that contains several pure substances that are not chemically combined is called a(n) _____.
 - a. Element.
 - b. Compound.
 - c. Mixture.
 - d. Both (a) and (b)
6. Nitrogen and oxygen are in the air. Nitrogen and oxygen also form a molecule called nitrogen dioxide. Nitrogen and oxygen form _____.
 - a. A mixture in the air and a compound in nitrogen dioxide.
 - b. A compound in the air and a mixture in nitrogen dioxide.
 - c. A mixture in the air and in nitrogen dioxide.
 - d. A compound in the air and in nitrogen dioxide.

7. Two features that characterize matter are ____
- Mass and velocity.
 - Weight and velocity.
 - Mass and volume.
 - Weight and volume.
8. The unit m^3 is used to express ____
- Length.
 - Mass.
 - Volume.
 - Density.
9. The abbreviations for units of length in order from smallest to largest are ____
- m, cm, mm, km.
 - mm, m, cm, km.
 - km, mm, cm, m.
 - mm, cm, m, km.
10. A sample of bismuth has a mass of 342g and a volume of 1.64 cm^3 . What is the density of bismuth?
- $4.80 \times 10^{-3} \text{ g/cm}^3$
 - 209 g/cm^3
 - 344 g/cm^3
 - 561 g/cm^3