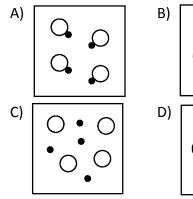
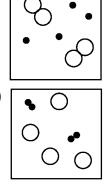
Name:

1. Which particle diagram represents one pure substance, only?





- 2. Which substance can be decomposed by a chemical change?
 - A) calcium B) potassium

C) copper

- D) ammonia
- 3. Which terms are used to identify pure substances?
 - A) an element and a mixture
 - B) an element and a compound
 - C) a solution and a mixture
 - D) a solution and a compound
- 4. Two substances, A and Z, are to be identified. Substance A can not be broken down by a chemical change. Substance Z can be broken down by a chemical change. What can be concluded about these substances?
 - A) Both substances are elements.
 - B) Both substances are compounds.
 - C) Substance A is an element and substance Z is a compound.
 - D) Substance A is a compound and substance Z is an element.

- 5. Tetrachloromethane, CCl4, is classified as a
 - A) compound because the atoms of the elements are combined in a fixed proportion
 - B) compound because the atoms of the elements are combined in a proportion that varies
 - C) mixture because the atoms of the elements are combined in a fixed proportion
 - D) mixture because the atoms of the elements are combined in a proportion that varies
- 6. Which substance can *not* be decomposed by a chemical change?
 - A) AlCl₃ B) H₂O C) HI D) Cu
- 7. Which list of formulas represents compounds, only?
 - A) CO₂, H₂O, NH₃ B) H₂, N₂, O₂
 - C) H₂, Ne, NaCl D) MgO, NaCl, O₂
- Matter that is composed of two or more different elements chemically combined in a fixed proportion is classified as
 - A) a compound B) an isotope
 - C) a mixture D) a solution