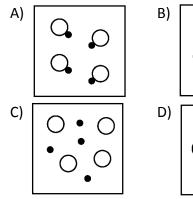
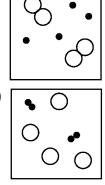
## Name:

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) AlCl<sub>3</sub> B) H<sub>2</sub>O C) HI D) Cu
- 7. Which list of formulas represents compounds, only?
  - A) CO<sub>2</sub>, H<sub>2</sub>O, NH<sub>3</sub> B) H<sub>2</sub>, N<sub>2</sub>, O<sub>2</sub>
  - C) H<sub>2</sub>, Ne, NaCl D) MgO, NaCl, O<sub>2</sub>
- 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