Skill Practice 8

Matter Practice

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Hour: \_\_\_\_\_

1. Explain why compounds are always homogeneous, but mixtures can be either homogeneous or heterogeneous.
2. A white powder is in a beaker. Which statement(s) can be said for sure about the powder?
3. It is homogeneous
4. It is heterogeneous
5. It is a mixture.
6. It is a compound.

A) I only B) I and IV only C) I and III only D) III only E) none of these

1. Classify the following as chemical changes (C) or physical changes (P). Place a C or P in the blanks as appropriate.

|  |  |
| --- | --- |
| \_\_\_\_\_ a) a dead fish rotting  \_\_\_\_\_ b) dissolving salt in water  \_\_\_\_\_ c) boiling salt water until just salt remains | \_\_\_\_\_ d) melting steel  \_\_\_\_\_ e) bending steel  \_\_\_\_\_ f) cracking ice |

1. Identify the following as an element (E), compound (C), or mixture (M).

|  |  |
| --- | --- |
| \_\_\_\_\_ a) calcium  \_\_\_\_\_ b) calcium and oxygen in the same container  \_\_\_\_\_ c) calcium and oxygen atoms bonded | \_\_\_\_\_ d) water  \_\_\_\_\_ e) sodium  \_\_\_\_\_ f) sand |

1. How many phases and how many states are in a mixture made out of sand, saltwater, oil and ice.