Changes of State

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

1. _____Which of the following describes the process of freezing?
   A. Freezing occurs when the temperature of a substance drops to 0°C
   B. Freezing occurs when the particles of a solid vibrate so fast that they break free.
   C. Freezing occurs when the temperature drops enough a gas turns into a solid.
   D. Freezing occurs when the particles in a liquid slow down and take fixed positions.
2. ____ The process that makes ice cubes shrink as they sit in a freezer is called
   A. Sublimation
   B. Condensation
   C. Freezing
   D. Boiling
3. ____ The temperature at which a liquid turns to a gas is
   A. Called the freezing point.
   B. Called the boiling point.
   C. 100°C
   D. The same for an amorphous or crystalline solid.
4. ____ The particles of which of the following have the greatest thermal energy?
   A. A liquid
   B. A crystalline solid
   C. A gas
   D. An amorphous solid

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

5. _____ sublimation and boiling both happen at the surface of the substance.
6. _____ vaporization is the reverse of condensation.
7. _____ the temperature at which a liquid turns to a gas is called the boiling point.
8. _____ boiling is the reverse of freezing
9. _____ water particles in gas coming off of a pan and boiling water are moving slower than the particles of the water in the pan
10. _____ evaporation and condensation are both types of vaporization.