

## Unit 2 page 2

- \_\_\_\_\_ 9. As the gas in a rigid container is heated, its  
a. pressure increases. b. volume increases.  
c. pressure decreases. d. volume decreases.
- \_\_\_\_\_ 10. A liquid with a low viscosity  
a. has a definite shape. b. flows quickly.  
c. flows slowly. d. fills its container.

### ◆ Completion

Fill in the blank to complete each statement.

11. According to Charles's law, when the temperature of a gas increases in a flexible container, its \_\_\_\_\_ increases.
12. Gas particles that are not contained will always move from an area of \_\_\_\_\_ pressure to an area of \_\_\_\_\_ pressure.
13. Matter in the \_\_\_\_\_ state has a definite shape.
14. \_\_\_\_\_ occurs when the particles on the surface of a solid are directly released as a gas.
15. The resistance of a liquid to flowing is called \_\_\_\_\_.

### ◆ True or False

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

- \_\_\_\_\_ 16. If a graph is a straight line that passes through point (0, 0), the two variables are considered directly proportional.
- \_\_\_\_\_ 17. A change of state occurs when the thermal energy of a substance increases or decreases by a sufficient amount.
- \_\_\_\_\_ 18. During boiling, only particles on the surface of the liquid gain enough energy to become gas.
- \_\_\_\_\_ 19. The change from a solid to a liquid is condensation.
- \_\_\_\_\_ 20. Gas pressure is found by dividing the force of its outward push by the area it pushes on.