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_____ 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.