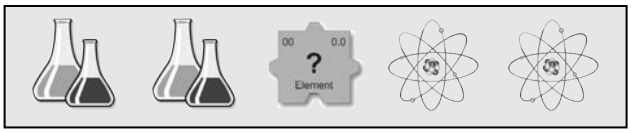
Name: _____

Date: _____ Grade: _____

SECTION QUIZ 1-3



Remember:
Score an 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.5 points.

Fill in the blank or circle True or False.

1. The chemist who is given credit for stating the Atomic Theory of Matter is: _____.
   (a) Robert Boyle (c) Amedo Avogadro
   (b) John Dalton (d) Alesandro Smith
2. According to John Dalton, _____ are the smallest particles that make up matter.
3. According to John Dalton, all atoms of the same element are alike in their properties.
   (a) True or (b) False
4. According to John Dalton, molecules of the same compound are: _____.
   (a) identical (b) different (c) larger (d) smaller
5. A(n) _____ is the smallest particle that contains the chemical properties of a particular element.
6. A(n) _____ is the smallest particle that contains the chemical properties of a particular compound.
7. Hydrogen gas is made of pairs of hydrogen atoms. Therefore, hydrogen gas is binary.
   (a) True or (b) False
8. Elements are made of _____ that are alike.
9. Compounds are made of _____ that are alike.
10. When gaseous elements combine, they do so by small whole number amounts by volume.
    (a) True or (b) False
11. The chemical symbol for an element is made of one or two letters with the first letter always capitalized.
    (a) True or (b) False

For each element, supply the missing element name.

Word Bank

sulfur	iron	copper
oxygen	carbon	gold
chlorine	silver	tin
nitrogen	lead	mercury
hydrogen	phosphorus	

Name	Symbol
12. _____	Au
13. _____	C
14. _____	Cu
15. _____	Fe
16. _____	H
17. _____	Hg
18. _____	O
19. _____	S

20. The chemical _____ for a compound shows the type and number of atoms in the compound.

21. A chemical _____ is a shorthand way of showing a chemical reaction.

22. A chemical equation must balance because of the: _____.
    (a) Law of Equal Proportions (c) Law of Definite Proportions
    (b) Law of Conservation of Matter (d) Law of Equal Relations

23. The electrical charge of a proton is: _____.
    (a) negative (b) positive (c) neutral (d) superlative

24. Cause: An atom gains a proton. Effect: The atom becomes a different element.
    (a) True or (b) False

25. Given that carbon has an atomic weight of 12.001, and hydrogen has an atomic weight of 1.0080, the molecular weight of methane (CH_4) is _____.

26. Count Rumford concluded that heat is a form of energy.
    (a) True or (b) False

27. As a substance is heated, its molecules move: _____.
    (a) more slowly
    (b) more quickly
    (c) not at all
    (d) in a complete circle

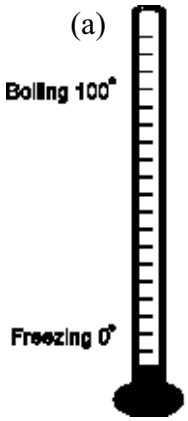
28. Heat and temperature are the same quantities.
    (a) True or (b) False

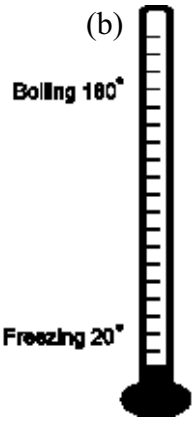
29. As temperature increases, gases: _____.
    (a) expand
    (b) stay at the same volume
    (c) stay at the same density
    (d) shrink

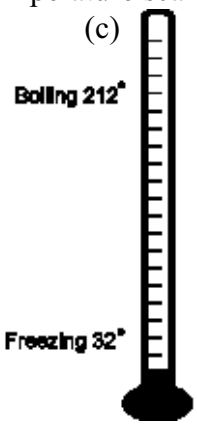
30. A calorie is the quantity of heat required to raise the temperature of 1 gram of _____ by 1º C.
    (a) ammonia (b) water (c) alcohol (d) soda

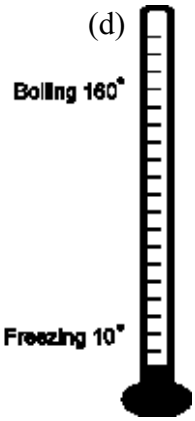
31. All liquids have: _____.
    (a) the same molecular weight
    (b) a set boiling temperature
    (c) same expansion rate
    (d) decreasing values

32. Which thermometer describes the temperature scale Anders Celsius invented? _____

(a) 

(b) 

(c) 

(d) 

33. According to Charles' Law, an increase in temperature of 1º C caused the volume of a gas to _____ by 1/273 of its volume at 0º C.
    (a) increase (b) remain the same (c) decrease (d) circulate

34. The temperature scale based on absolute zero, the coldest temperature possible, is known as the: _____.
    (a) Fahrenheit scale
    (b) Kelvin scale
    (c) Celsius scale
    (d) Thermometer scale

35. To convert from Celsius to Kelvin, the number added to the Kelvin temperature is 273.
    (a) True or (b) False

36. *"Give yourself a _____ and not a change. Give 100% to your school work and 100% to your sport... then when the time comes, you are able to make your choice about what you wish to do in life."*

37. *"Things turn out best for the people who make the best of the way _____ _____."*

38. *"You cannot tailor make your situations in life, but you can tailor make your _____ to fit those situations."*

39. *"There is nothing you can't do, if you set your _____ to it. Anything is possible."*

40. *"The heights of great men reached and kept were not attained by sudden flight, but they, while their companions _____, were toiling upward in the night."*