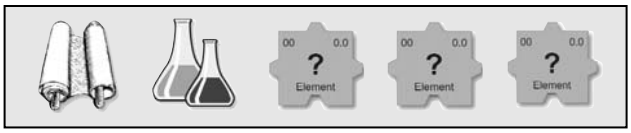
Name: _____

Date: _____ Grade: _____

SECTION QUIZ 5-2



Remember:
Score an average of 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 2.3 points.

For #1-4, use the correct word from the Word bank to complete each sentence.

WORD BANK			
amperes	coulombs	ohms	volts

1. In the metric system, electromotive force is measured in _____.
2. In the metric system, current is measured in _____.
3. In the metric system, charge is measured in _____.
4. In the metric system, resistance is measured in _____.

Fill in the blank or circle True or False.

5. If the voltage in a circuit is increased, but the resistance stays the same, the current will: _____.
   (a) increase (b) decrease (c) stay the same (d) disappear
6. If the length of the wire in a circuit increases, the resistance will: _____.
   (a) increase (b) decrease (c) stay the same (d) disappear
7. If the wire in a circuit is replaced with wire of greater diameter, the resistance will: _____.
   (a) increase (b) decrease (c) stay the same (d) disappear
8. Ohm's Law relates three quantities. These quantities are _____, _____ and _____.
9. Calculate the current that flows in a 6.0 volt circuit with a resistance of 16 ohms.
   _____
10. State in symbols how Ohm's Law would be written to find resistance given voltage and current. _____
11. Calculate resistance given that a 1.5 volt circuit carries 0.5 amps. _____
    _____
12. Humphry Davy freed potassium from: _____.
    (a) lime (b) potash (c) silica (d) soda ash

13. The names for lithium, sodium and potassium end with *-ium* to show that they are: _____.
    (a) alkalis (b) bases (c) metals (d) unknown in ancient times

14. The chemical formula for potassium carbonate is _____.

15. Humphry Davy's life was cut short: _____.
    (a) by a mining accident
    (b) because of lack of caution around chemicals
    (c) during a balloon accident
    (d) while on tour in France

Write the element name for each symbol:

16. *Li* _____

17. *Na* _____

18. *K* _____

19. *Rb* _____

20. *Cs* _____

21. *Fr* _____

22. Members of the sodium family are active metals.
    (a) True or (b) False

23. Complete this equation: base + acid → _____ + water.

24. A chemical that gives foods such as lemon and grapefruit the sour taste is an acid.
    (a) True or (b) False

25. Electrolysis played a role in the discovery of: _____.
    (a) gold and copper
    (b) oxygen and nitrogen
    (c) rubidium and francium
    (d) sodium and potassium

26. The formula for sodium bicarbonate is _____.

27. The formula for sodium hydroxide is _____.

28. Sodium hydroxide is a base.
    (a) True or (b) False

29. Potassium sets water on fire.
    (a) True or (b) False

30. Any of the following would be used to put out a potassium fire except: _____.
    (a) dry sand (b) salt (c) soda ash (d) water

31. Potassium is never found in the native (free) state, but is common in the earth's crust in combination with other elements.
    (a) True or (b) False

32. KNO_3 is the formula for potassium: _____.
    (a) hydride (b) nitrate (c) oxide (d) sulfate

33. A _____ identifies the elements by the number and position of the bright lines from the light emitted by a glowing compound.

34. When light gives electrons enough energy to escape from the surface of a metal, the process is called: _____.
    (a) electrolysis (c) radioactivity
    (b) photoelectric effect (d) reduction

35. All of the metals of the sodium family form ions with a double negative charge.
    (a) True or (b) False

36. "*Try not to become a man [person] of success but rather try to become a man [person] of _____.*"

37. *"Let those who want to move and convince others, first be _____ and moved themselves."*

38. *"I like living. I have sometimes been despairingly miserable, racked with sorrow, but through it all I still know that just to be _____ is a grand thing."*

39. *"Challenges make you discover things about _____ that you never really knew."*

40. *"Patience and perseverance have a magical effect before which difficulties disappear and obstacles _____."*