SECTION QUIZ 3-2

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 2.4 points.

Fill in the blank: Choose the correct word from the WORD BANK.

silver	aluminum	atom	element	mercury	luster	active
molecule	inert	neutral	hydrogen	carbon	peroxide	salt

1. The smallest possible piece into which a substance can be cut and still retain its chemical properties is a(n) _____.
2. The only metals without a silvery _____ are gold and copper.
3. _____ is the only metal that is in liquid form at room temperature.
4. Although not quite as good an electric conductor as some other metals, _____ wires are used extensively because they are lightweight and low cost.
5. The hazardous elements of sodium and chlorine combine to make the harmless compound of _____.
6. A _____ of a compound is a combination of atoms of two or more elements.
7. Normally, an atom is electrically _____ because the charges are balanced.
8. Chemically _____ elements form compounds.
9. Chemically _____ elements do not form compounds.
10. _____ is chemically the simplest and most unique of all the elements.
11. _____ shares more electrons and forms more compounds than any other element.

True or False: Write the correct answer.

12. _____ Atoms can neither be created nor destroyed, but only change form.
13. _____ Atoms are rearranged in mixtures.
14. _____ Elements are described by both physical and chemical properties.
15. _____ Diamonds are carbon compounds.

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Matching: Choose the correct answer.

16. _____ chemical symbol	(a) the number of protons in an atom, always a whole number
17. _____ chemical formulas	(b) negatively charged, circles the nucleus of an atom
18. _____ positive ion	(c) a positively charged atom
19. _____ negative ion	(d) positively charged part of an atom's nucleus
20. _____ atomic number	(e) a letter or letters that stand for a certain element
21. _____ proton	(f) a negatively charged atom
22. _____ neutron	(g) represent compounds of elements in certain ratios
23. _____ electron	(h) part of an atom's nucleus with no charge (neutral)

Multiple Choice: Write the correct answer.

24. Which statement is true of a mixture? _____

_____

(a) It is a chemical combination of elements.
(b) It involves only one substance.
(c) It is a physical combination, and elements retain their properties.
(d) A new chemical substance is formed, and individual elements lose their original properties.

25. Which statement is true of a compound? _____

_____

(a) It is a combination of elements that retain their individual properties.
(b) A new chemical substance is formed, and individual elements lose their original properties.
(c) It involves only one substance.
(d) It is a new physical item, composed of only one element whose atoms have been rearranged.

26. Which statement is **NOT** true of gold? _____

_____

(a) It is yellow colored and moisture resistant.
(b) It is used mainly for coins and jewelry.
(c) It tarnishes quickly.
(d) It has kept its value since ancient times.

27. What is the best conductor of electricity? _____

(a) gold (c) copper
(b) silver (d) aluminum

28. The first photographs were printed on: _____.

(a) special paper (c) thin sheets of metal
(b) specially treated cloth (d) none of these

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29. How are families of elements on the Periodic Table grouped? _____

_____

(a) according to their physical properties
(b) according to when they were discovered
(c) according to their chemical properties
(d) according to their ability to conduct electricity

Matching: Choose the correct answer.

30. _____ elements	(a) shown in vertical columns on the Periodic Table
31. _____ ionic compounds	(b) one metal compounded with another to yield a stronger product
32. _____ covalent bonds	(c) contains only atoms that are exactly alike
33. _____ alloy	(d) have shared electrons
34. _____ Joseph Niépce	(e) French co-inventor of photography in early 1800s
35. _____ Dmitri Mendeleev	(f) substances formed by attraction between ions
36. _____ chemical families	(g) corrode metal
37. _____ acids	(h) Russian scientist, invented Periodic Table of the Elements in the middle 1800s

Complete the Life Principles.

38. *"The _____ of happiness is composed of the elements love, forgiveness and gratitude."*
39. *"Dropping _____ attitudes allows us to become more positive."*
40. *"To bring out the best in yourself, bond with people of _____."*
41. *"Progress consists largely of learning to apply laws and _____ that have always existed."*
42. *"A person is known and evaluated by his family name and by the _____ he keeps."*

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