∫R-1434

96

oxygen atoms.

OTHER CLEVER CATCH® TITLE AVAILABLE:







dinitrogen trioxide

-			
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Name the molecular compound containing two nitrogen atoms and three

Your **Chemistry Clever Catch**[®] provides an excellent way to learn basic Chemistry concepts and introduce the Periodic Table of the Elements. This ball contains 96 questions to get students started in this exciting topic. Clever Catch[®] can be used at school in organized classroom activities. It can also be used on the playground or at home. Grades 6-8.

CLEVER CATCH® AT HOME OR ON THE PLAYGROUND

Basic play for Clever Catch[®] is simple. Two or more players toss the ball to each other, answering the problem underneath or closest to their left thumb. Each problem is numbered and enclosed in its own space, assuring the child will know which problem to answer. Answers are provided in this insert for independent play by students.

PLAYOFFS:

Pairs of children toss the ball back and forth for one minute answering problems. A scorekeeper tallies which team has the most correct answers in the time limit.

CLEVER CATCH® IN THE CLASSROOM

BEAT THE CLOCK:

The entire class plays cooperatively as one team, trying to better its own time and number of correct answers in each game.

DIRECTIONS:

- 1 Choose a timekeeper. You also will need a monitor teacher or student to keep track of correct answers.
- 2 Divide the class into two lines of equal length, students facing each other.
- **3** At the timekeeper's signal, toss Clever Catch[®] to the first student. As quickly as possible, this student reads and answers the problem underneath his/her left thumb.
- 4 This student then tosses Clever Catch[®] to the student directly across from him/her in the second line. This student reads and answers the problem under his/ her left thumb.
- **5** Play continues until all students in both lines have had a turn. When the last student has answered, the time and correct number of answers are recorded.

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Question

Answer

	Question	Answer
Ι.	Organic chemistry is the study of chemicals containing which element?	B. carbon
2.	Mixtures containing particles that are not evenly distributed are called mixtures	C. heterogeneous
3.	The vertical columns of the periodic table are called	A. families
4.	In the periodic table, periods are arranged	A. horizontally
5.	The unreactive elements of Group 18 in the periodic table are called	C. noble gases
6.	"Matter is neither created nor destroyed during ordinary chemical reac- tions." This is the law of	B. conservation of mass
7.	Modern atomic theory is based on the atomic theory developed by an English school teacher named John	C. Dalton
8.	The smallest of the three basic particles in an atom is the	B. electron
9.	Which of the three basic particles in an atom lacks an electrical charge?	B. neutron
10.	The atom number of an element is the number of in the nucleus of each atom of that compound.	C. protons
П.	lsotopes are atoms of the same element that have different	A. masses
12.	Elements tend to gain, lose or share electrons to become like the	A. noble gases
13.	When no more salt can be dissolved into a container of water, the salt-water solution is said to be:	B. saturated
14.	The first workable periodic table of the elements was developed in 1869 by	C. Mendeleev
15.	The elements of Group 1 of the periodic table are known as	B. alkali metals
16.	Flourine, chlorine, bromine, iodine, and astatine are known as the	A. halogens
17.	The electrons on an atom that are available to be lost, gained or shared are called electrons.	C. valence
18.	You can speed up a chemical reaction by using a recyclable substance called a	C. catalyst
19.	CH4 is an example of a formula.	A. molecular
20.	A buffered solution resists changes in	C. _P H
21.	An ion that consists of several covalently bonded atoms is known as a bond.	A. polyatomic
22.	Mg2+ and Br- combine to form:	C. MgBr2
23.	The acid in car batteries is:	B. Sulfuric Acid
24.	Oxyacids always contain oxygen and	B. hydrogen
25.	The symbol for copper is	B. Cu
26.	For every one H2 and O2 that combines to form H2O to form H2O, the balanced chemical equation indicates that H2O are formed.	C. two
27.	Decomposition reactions are the opposite ofreactions.	A. synthesis
28.	The most reactive metals are known as metals.	A. alkali
29.	The most reactive nonmetals are known as	B. halogens
30.	The attraction of a liquid's surface to a solid's surface is called:	C. capillary action
31.	When particles escape as a gas from the surface of a nonboiling liquid, it is called:	B. evaporation
32.	The change in state from a solid directly to a gas is known as	A. sublimation
33.	A substance dissolved in a solution is called the	A. solute
34.	A solution that tastes sour and reacts with metals to form hydrogen gas is	A. acidic
35.	A solution that tastes bitter and feels slippery is	A. basic
36.	An alkaline solution is	B. basic
37.	Which of the following is an nindication that a chemical reaction has occurred?	D.All of the above
38.	The pH measures a solutions'	A. acidity
39.	True or False: A chemical compound always contains at least two different elements.	TRUE
40.	True or False: The chemical formula of water is variable and depends on whether it is solid, liquid, or gas.	FALSE
41.	True or False: Under the same condition, a given number of particles of any gas, regardless of mass, will occupy the same volume.	TRUE
42.	True or False: Solubility varies with temperature.	TRUE

43.	True or False: The rate at w h ich a solid dissolves in water depends on its solubility.	FALSE
44.	Which element has the symbol Na?	Sodium
45.	What is the symbol for Calcium?	Ca
46.	Sn is the symbol for which element?	Tin
47.	Pb is the symbol for which element?	Lead
48.	Name the element that has the symbol Fe.	Iron
49.	When ionic substances dissolve in water, they break into	ions
50.	Hydrogen gas combines with oxygen gas to produce	water
51.	When two or more substances are blended together the result is called a	mixture
52.	The study of the chemistry of living things is called	biochemistry
53.	Any substance that has a definite composition is called a	chemical
54.	A chemical compound is defined as two or more chemically combined	elements
55.	The substances that react in a chemical change are called the	reactants
56.	The substances that are formed in a chemical change are called the	products
57.	The two types of pure substances are elements and	compounds
58.	Nonmetals are poor	conductors
59.	Name the two main particles that make up the nucleus of an atom.	protons and neutrons
60.	A solution usually consists of a solute that is dissolved into a	solvent
61.	The atomic number of carbon (C) is 6. How many neutrons are in one atom of C-14?	8
62.	An element that has characteristics of both metals and nonmetals is called a	metalloid
63.	The smallest particles of an element that retain the properties of that ele- ment are known as	atoms
64.	What is the atomic number of C?	6
65.	The mass number of an atom is equal to the total number of protons and in the nucleus.	neutrons
66.	Substances that dissolve in water to form a solution that conducts electricity are called	electrolytes
67.	When industrial gases combined with water in the air to form acids the results are called	acid rain
68.	Name the two elements found in hydrocarbons.	hydrogen and carbon
69.	TheTable is an arrangement of the elements into groups with similar properties.	Periodic
70.	What is the mass number of C?	14
71.	Single atoms or groups of bonded atoms with a charge are called	ions
72.	An ion can simply be described as a particle that has a	charge
73.	Positive ions are called	cations
74.	Negative ions are called	anions
75.	A force that holds atoms together is called a chemical	bond
76.	Electrical attraction between positively and negatively charged particles is called	bonding
77.	How many atoms are there in a diatomic molecule	2
78.	According to the octet rule, atoms react so as to have how many outer electrons?	8
79.	How many atoms does it take to form a monatomic ion?	1
80.	The negative ion formed from a Flourine atom is called	Flouride
81.	Name the compound formed when sodium and oxygen combine.	Sodium oxide
82.	An ionic compound that is neither an acid nor a base must be a	Salt
83.	Since sodium is found in group 1 of the Periodic Table, the charge of a sodium must be	+I
84.	Chlorine is found in group 17 of the Periodic Table. The charge on a chloride ion is therefore	-1
85.	Potassium has the symbol:	С.К
86.	Hg stands for	C. Mercury
87.	What substance, found in the air, is needed in order for things to burn?	Oxygen