Chemical bonding



Name _____ Class ____ Date ____

How many atoms of oxygen (O) are in the chemical formula below?

A4 Al₂(SO₄)₃

The diagram shown below is a structural formula for the gas propane. What would be the correct chemical formula for propane?

3 Carbon (C) and hydrogen (H) create covalent bonds to share electrons between them. What is the total number of electrons being shared between carbon and hydrogen in the molecule

A 8 C 16 H-C-C-C-I B 11 D 32 H H H

- The reason why the bonds between carbon (C) and hydrogen (H) H H H H Are covalent is H C C H
 - electrons to give away

 C and H are both nonmetals

 C C and H are both metalloids

 C and H can bond only
 by sharing electrons

The diagram below represents the structural formula for several water molecules. How many molecules are represented?

A 3 B 5 C 10 D 15 6 Explain the arrangement of the molecules in the diagram of water below.

A it is a lucky arrangement

B water molecules are sticky

C water molecules have

D water molecules are magnetic

Water molecules have some polarity in their structure. Using the diagram below, notice how the ends of H atoms (positive) and O atoms (negative) meet. This property is the reason that

A water forms droplets easily
B water boils easily
C ice melts easily
D water has color

Since H atoms are slightly positive and the O atoms are slightly negative, molecules of water have polarity. This makes water a good

A solute
B refrigerant
C solvent
D magnet

The chemical formula for the exygen that we breathe is

B 0, C 0, D 20



How many molecules of oxygen are represented in the chemical formula below?

> A 2 B 4 C 6 D 18

40

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Cultural Validity in Assessment María del Rosario Basterra, Elise Trumbull, Guillermo Solano-Flores, 2011-04-12 What is assessment and how is it a cultural practice How does failure to account for linguistic and cultural variation among students jeopardize assessment validity What is required to achieve cultural validity in assessment This resource for practicing and prospective teachers as well as others concerned with fair and valid assessment provides a thorough grounding in relevant theory research and practice The book lays out criteria for culturally valid assessment and recommends specific strategies that teachers can use to design and implement culturally valid classroom assessments Assessment plays a powerful role in the process of education in the US and has a disproportionately negative impact on students who do not come from mainstream middle class backgrounds Given the significance of testing in education today cultural validity in assessment is an urgent issue facing educators. This book is essential reading for addressing this important relevant topic Global Approaches to Early Learning Research and Practice Kenneth R. Pugh, Peggy McCardle, Annie Stutzman, 2018-02-26 The health development and learning of many young children living in disadvantage areas are at serious risk Access to education has improved under the United Nations Millennium Development Goals and there are now programs in low and middle income countries that are aimed at improving instruction and learning The research and evaluation on the effectiveness of such programs show there are significant challenges but also some successes This issue features presentations of leading international scientists representatives from key governmental and non governmental organizations and others working with programs in the developing world and disadvantaged populations The presentations describe the goals existing challenges and potential approaches to providing evidence based programs to young children in rural remote and poverty stricken areas Topics covered include the state of early childhood in low and middle income nations programs that have shown some success and innovative research approaches that have been often considered unfeasible in these contexts This is the 158th volume in this Jossey Bass series New Directions for Child and Adolescent Development Its mission is to provide scientific and scholarly presentations on cutting edge issues and concepts in this subject area Each volume focuses on a specific new direction or research topic and is edited by experts from that field

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