

## Chemistry – Unit 5 Worksheet 2

1. An old (pre-1987) penny is nearly pure copper. If such a penny has a mass of 3.3 g, how many moles of copper atoms would be in one penny?

$$3.3 \text{ g} \times \frac{1 \text{ mole}}{63.5 \text{ g}} = 5.2 \times 10^{-2} \text{ mol or } 0.052 \text{ mol}$$

2. Four nails have a total mass of 4.42 grams. How many moles of iron atoms do they contain?

$$4.42 \text{ g} \times \frac{1 \text{ mole}}{55.8 \text{ g}} = 7.92 \times 10^{-2} \text{ mol or } 0.0792 \text{ mol}$$

3. A raindrop has a mass of 0.050 g. How many moles of water does a raindrop contain?

$$0.050 \text{ g} \times \frac{1 \text{ mole}}{18.0 \text{ g}} = 2.78 \times 10^{-3} \text{ mol} \rightarrow 2.8 \times 10^{-3} \text{ mol}$$

4. What mass of water would you need to have 15.0 moles of H<sub>2</sub>O?

$$15.0 \text{ moles} \times \frac{18.0 \text{ g}}{1 \text{ mole}} = 2.70 \times 10^2 \text{ g}$$

5. One box of Morton's Salt contains 737 grams. How many moles of sodium chloride is this?

$$737 \text{ g} \times \frac{1 \text{ mole}}{58.5 \text{ g}} = 12.6 \text{ mol}$$

Na	23.0
Cl	35.5
	<hr/> 58.5 g

6. A chocolate chip cookie recipe calls for 0.050 moles of baking soda (sodium bicarbonate). How many grams should the chef mass out?

$$0.050 \text{ moles} \times \frac{84.0 \text{ g}}{1 \text{ mole}} = 4.2 \text{ g}$$

Na	23.0
H	1.0
C	12.0
O	48.0
	<hr/> 84.0

7. Rust is iron(III) oxide. The owner of a 1959 Cadillac convertible wants to restore it by removing the rust with oxalic acid, but he needs to know how many moles of rust will be involved in the reaction. How many moles of iron(III) oxide are contained in 2.50 kg of rust?

$$2.50 \text{ kg} \times \frac{1000 \text{ g}}{1 \text{ kg}} \times \frac{1 \text{ mole}}{159.6 \text{ g}} = 15.7 \text{ mol Fe}_2\text{O}_3$$

Fe	111.6
O	48.0
	<hr/> 159.6

# Modeling Chemistry Unit 5 Answer

**American Chemical Society**



## Modeling Chemistry Unit 5 Answer:

**Chemistry in the Community** American Chemical Society, 2006-01-31 This laboratory based text centres itself around decision making activities where students apply their chemistry knowledge to realistic situations This fifth edition includes more photographs new drawings and new design *Resources in Education* ,1980 **Advancements of Mass Spectrometry in Biomedical Research** Alisa G. Woods, Costel C. Darie, 2019-07-25 This volume explores the use of mass spectrometry for biomedical applications Chapters focus on specific therapeutic areas such as oncology infectious disease and psychiatry Additional chapters focus on methodology technologies and instrumentation as well as on analysis of protein protein interactions protein quantitation and protein post translational modifications Various omics fields such as proteomics metabolomics glycomics lipidomics and adductomics are also covered Applications of mass spectrometry in biotechnological and pharmaceutical industry are also discussed This volume provides readers with a comprehensive and informative manual that will allow them to appreciate mass spectrometry and proteomic research but also to initiate and improve their own work This book acts as a technical guide as well as a conceptual guide to the newest information in this exciting field Prentice Hall Science Explorer Michael J. Padilla, 2002 *Russian Journal of Physical Chemistry* ,1997 EPA Publications Bibliography Quarterly Abstract Bulletin United States. Environmental Protection Agency, 1993-10 Courses and Degrees Stanford University, 1983 **Earth Science** ,2001 **Environmental Toxicology and Chemistry** ,2007 Energy Research Abstracts ,1977 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes Government Reports Announcements & Index ,1996 **Indian Science Abstracts** ,2010-05 Paperbound Books in Print ,1992 Stanford Bulletin ,2006 Government Reports Annual Index ,1993 **The Publishers' Trade List Annual** ,1978 **New Research Centers** ,1996 Modelling and Simulation 1991 European Simulation Multiconference, 1991 Missile Aerodynamics ,1998 This report contains the papers prepared for the Symposium on Proceedings of the Third International Symposium on Environmental Degradation of Materials in Nuclear Power Systems--Water Reactors George J. Theus, John R. Weeks, 1987

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