

Unit 8 – Stoichiometry Worksheet 1: Mole relationships

For each of the problems below, use the five steps discussed in class. Answer on a separate piece of paper.

1. Write the balanced chemical equation
2. Identify what is given (with units) and what you want to find (with units) in a BCA table
3. Use the mole ratio from the balanced equation to calculate remaining values in the Table (dimensional analysis style). **Show your work beneath the BCA table.**
4. Complete the BCA Table using calculation results
5. Find the desired quantity in your work. Write and box in that answer with unit, substance.

1. Hydrogen sulfide gas, which smells like rotten eggs, burns in air to produce sulfur dioxide and water. How many moles of oxygen gas would be needed to completely burn 8.0 moles of hydrogen sulfide? (The BCA table is done as an example. Make/copy your own on your own piece of paper).

Equation: $\text{___ H}_{2}\text{S}_{(g)} + \text{___ O}_{2(g)} \rightarrow \text{___ SO}_{2(g)} + \text{___ H}_2\text{O}_{(g)}$

Before:

FILL IN THE VALUES ON YOUR OWN PAPER

Change

(SHOW WORK UNDER THE TABLE)

After

2. Propane, C_3H_8 , burns in air to form carbon dioxide and water. If 12 moles of carbon dioxide are formed, how many moles of propane were burned?
3. Ammonia, NH_3 , for fertilizer is produced by causing hydrogen and nitrogen to react at high temperature and pressure. How many moles of ammonia can be made from 0.15 moles of nitrogen gas?
4. The poison gas phosgene, COCl_2 , reacts with water in the lungs to form hydrochloric acid and carbon dioxide. How many moles of hydrochloric acid would be formed by 0.835 moles of phosgene?
5. Nitric acid, HNO_3 , is used in the production of trinitrotoluene, (TNT), an explosive. The equation (not balanced) is



- a) How many moles of nitric acid are required to react with 4.5 moles of toluene? (make your own BCA table)
 - b) How many moles of TNT should be produced?
6. Iron metal and oxygen combine to form magnetite, the magnetic oxide of iron, Fe_3O_4 .
 - a) How many moles of iron can be converted to magnetite by 8.80 moles of pure oxygen? (make your own BCA table)
 - b) How many moles of the magnetic iron oxide would be produced?

Modeling Chemistry Unit 8 Mole Relationships Answers

G Psacharopoulos



Modeling Chemistry Unit 8 Mole Relationships Answers:

Chemistry William R. Robinson, Jerome D. Odom, Henry Fuller Holtzclaw, 1992 **Workshop Report** , **Selected Water Resources Abstracts** , 1991 **Nuclear Science Abstracts** , 1974 Water-resources Investigations Report , 1991

Chemical Physics of Solids and Their Surfaces M W Roberts, John M Thomas, 2007-10-31 Specialist Periodical Reports provide systematic and detailed review coverage of progress in the major areas of chemical research Written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry For over 80 years the Royal Society of Chemistry and its predecessor the Chemical Society have been publishing reports charting developments in chemistry which originally took the form of Annual Reports However by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series Specialist Periodical Reports was born The Annual Reports themselves still existed but were divided into two and subsequently three volumes covering Inorganic Organic and Physical Chemistry For more general coverage of the highlights in chemistry they remain a must Since that time the SPR series has altered according to the fluctuating degree of activity in various fields of chemistry Some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued **CHEMISTRY** SILBERBERG, 2003 *Acid Precipitation* , 1992 **Energy Research Abstracts** , 1986 ERDA Energy Research Abstracts , 1983 Pp/Chemistry BarCharts, Inc., 2008-06-18 **Journal of Research of the National Institute of Standards and Technology** , 2008 Reports NIST research and development in the physical and engineering sciences in which the Institute is active These include physics chemistry engineering mathematics and computer sciences Emphasis on measurement methodology and the basic technology underlying standardization **Technical Data Digest** , 1952

Fossil Energy Update , 1978 Confidential Documents United States. Army Air Forces, 1952 *Papers Presented at the ... Meeting* American Chemical Society. Division of Polymer Chemistry, 2000 *Library of Congress Catalog: Motion Pictures and Filmstrips* Library of Congress, 1963 A cumulative list of works represented by Library of Congress printed cards

Index Medicus , 2004 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings **Environmental Toxicology and Chemistry** , 2003 **Process and Chemical Engineering** , 2002

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