

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?

Answers Unit 8 1 Mole Relationships Answers

Thomas R. Dickson



Answers Unit 8 1 Mole Relationships Answers:

Solving Problems in Chemistry Smith, 1993-06 **Report of Investigations**, 1962 **Student's Guide to Introduction to Chemical Principles by Edward I. Peters, 2d Ed** Peter P. Berlow, 1978 **Introduction to Chemistry** Thomas R. Dickson, 1983 Teaches chemistry by offering a dynamic provocative relevant view of the topic its importance to society our daily lives Three themes are stressed throughout the text developing chemical thinking a chemical vision learning problem solving methods utilizing group work discussion activities These themes involve engage the students in their own learning processes they are challenged to be active The presentation of topics has been altered to include a new chapter which introduces the students to scientific thinking shows that chemistry involves interesting relevant topics The reorganization presents many core concepts in the first five chapters preparing students for later chapters In addition the author has added vignettes throughout the chapters referring to health technology the environment society as well as to specific tools of direct use to students **Educart CBSE Question Bank Class 11 Chemistry 2024-25 (For 2025 Board Exams)** Educart, 2024-06-17 What You Get Time Management Charts Self evaluation Chart Competency based Q s Marking Scheme Charts Educart Class 11 Chemistry Strictly based on the latest CBSE Curriculum released on March 31st 2023 Related NCERT theory with diagrams flowcharts bullet points and tables Important and Caution Points give to really work on common mistakes made during the exam Lots of solved questions with Detailed Explanations for all questions Includes Case based Examples and Numerical based Questions as per the new pattern change Extra practice questions from various CBSE sources such as DIKSHA platform and NCERT exemplars Why choose this book You can find the simplified complete with diagrams flowcharts bullet points and tables Based on the revised CBSE pattern for competency based questions Evaluate your performance with the self evaluation charts Cambridge International AS and A Level Chemistry Revision Guide Judith Potter, Peter Cann, 2015-10-29 A revision guide tailored to the AS and A Level Chemistry syllabus 9701 for first examination in 2016 This Revision Guide offers support for students as they prepare for their AS and A Level Chemistry 9701 exams Containing up to date material that matches the syllabus for examination from 2016 and packed full of guidance such as Worked Examples Tips and Progress Check questions throughout to help students to hone their revision and exam technique and avoid common mistakes These features have been specifically designed to help students apply their knowledge in exams Written in a clear and straightforward tone this Revision Guide is perfect for international learners *Molten-Salt Reactor Program Progress Report for Period from ...* Oak Ridge National Laboratory, 1960-08 Chemistry Class - XII Model Paper Chapter wise Question Answer With Marking Scheme 2023- SBPD Publications SBPD Editorial Board, 2022-10-14 Content 1 Solid State 2 Solution 3 Electrochemistry 4 Chemical Kinetics 5 Surface Chemistry 6 General Principles and Processes of Isolation of Element 7 P Block elements 8 d and f Block Elements 9 Coordination Compounds 10 Haloalkanes and Haloarenes 11 Alcohols Phenols and Ethers 12 Aldehydes Ketones and Carboxylic Acid 13

Organic Compounds Containing Nitrogen 14 Biomolecules 15 polymers 16 Chemistry in Everyday life Model Paper Set 1 4
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