

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?

Chemistry 1 Unit 8 Stoichiometry

University of Oklahoma

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Chemistry O'level Summarised Notes Mr. Ajeet Singh, 2018-05-13 EduGorilla has its own publishing wing producing exam prep books trade books etc Guided Inquiry Experiments for General Chemistry Nancy K. Kerner, Ram S.

Lamba, 2007-10-19 The use of the laboratory is a valuable tool in developing a deeper understanding of key chemical concepts from the experimental process This lab manual encourages scientific thinking enabling readers to conduct investigations in chemistry It shows how to think about the processes they are investigating rather than simply performing a laboratory experiment to the specifications set by the manual Each experiment begins with a problem scenario and ends with questions requiring feedback on the problem *Laboratory Manual to Accompany Chemistry, [by] Stanley R. Radel,*

Marjorie H. Navidi Arthur D. Baker, 1990 Oswaal JEE Advanced 47 Years' Chapter-wise and Topic-wise Solved Papers, Chemistry (For Exam 2025) Oswaal Editorial Board, 2024-10-12 Benefits of the product 100% Updated with Fully Solved 2024 Papers 1 2 Extensive Practice with 950 Questions of Previous Years 1 Practice Paper each of Paper 1 2 Crisp Revision with Revision Notes Smart Mind Maps Mnemonics and Appendix Valuable Exam Insights with Expert Tips Tricks and Shortcuts to Crack JEE Advanced Concept Clarity with Extensive Explanations of previous years papers 100% Exam Readiness with Chapter wise Analysis 2017 2024 **Resources in Education** , 1980-06 **Prentice Hall Chemistry** , 2000

Publications Washington University (Saint Louis, Mo.), 1956 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

Oswaal NEET (UG) 10 Mock Test Papers PHYSICS, CHEMISTRY & BIOLOGY for 2025 Exam | Based On Latest NTA Pattern Oswaal Editorial Board, 2024-05-23 Description of the Product 100% Updated with Fully Solved NEET UG 2024 Question Paper Extensive Practice with 2000 Practice Questions of Mock Test Papers based on latest syllabus Crisp Revision with Smart Mind Maps Mnemonics Appendix Valuable Exam Insights with Expert Tips to crack the NEET Exam in the 1st attempt Subject wise Trend Analysis 100% Exam Readiness with Extensive Explanations of Mock Test Papers **Peer-Led Team Learning** David Gosser, Victor S. Strozak, Mark S. Cracolice, 2006 The Workshop Program is a collaboration of teachers learning specialists and students that develops and implements a Peer Led Team Learning model of teaching science Students who have done well in the course are selected and trained for leadership roles These peer leaders guide the

work of teams of 6-8 students to solve carefully structured problems in weekly Workshop sessions Illinois Technograph
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for the Academic Year ... Washington University (Saint Louis, Mo.),1909 **A Textbook of Biotechnology For Class XI**
Dr. R.C. Dubey, Multiple choice questions with their answers are also incorporated to help students preparing for
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 UPCO's Review of Chemistry Robert M. Capie,2001 *New Trends in Organometallic Chemistry* Hideki Sakurai,1990
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