

## **Chapter 10 Review: Chemical Quantities & Calculations**

*(aka – mole & volume calculations, % composition, empirical & molecular formulas)*

For the test, be sure that you are familiar, and able to complete, the problems below as well as the problems found on the following worksheets: "Molecular Weight and Mole Calculations," "Percent Comp. & Chemical Formula Calculations" and "Chapter 10 Sample Problems." Check the class website for answers to the review worksheet.

1. The air around you is made up of 20.95% oxygen. How many oxygen molecules are in 75.0 grams of air? The density of air is 1.19 g/L. *assume STP.*
2. How much helium (*grams*) would be needed to inflate a balloon to a volume of 5.50L? *assume STP.*
3. The molecular formula of an antibacterial drug is  $C_{17}H_{18}FN_2O_5$ . How many fluorine atoms are in 150mg of this drug?
4. A molecule is made up of 40.0% carbon, 6.67% hydrogen, and an unknown amount of oxygen. What is the molecular formula of the molecule if its molar mass is 90.0g/mole?
5. What is the empirical formula for a compound made up of 71.72% chlorine, 16.16% oxygen and 12.12% carbon? Calculate the molecular formula for the compound if it has a molar mass of 296.7g/mol.
6. How many molecules are in 8.42 Kilograms of  $C_2H_4$ ?

## 6a Chemical Quantities Extra Practice Problems

**Exam Leaders Expert**



## 6a Chemical Quantities Extra Practice Problems:

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Inorganic Chemistry Exam Leaders Expert, This book is helpful for all competitive exams      *Solving Problems in Chemistry* Rod O'Connor, Charles Mickey, Alton Hassell, 1977      **Educart ICSE Class 10 Question Bank 2025 Chemistry One Shot for 2024-25 Exam** Educart, Sir Tarun Rupani, 2024-06-17 What You Get Analytical based Q s All Important Q s Educart ICSE Class 10 CHEMISTRY One Shot Question Bank 2024 25 Updated for 2025 Exam Strictly Based on ICSE Specimen Paper 15th May 2024 Competency based Q s as per revised ICSE pattern Push Yourself to perform well with High Order Q s Direct All Types of Memory based Q s and PYQ s Why choose this book First Book to introduce 25% High Order Ability Questions as per ICSE Specimen Papers 2025      **Ebook: Chemistry** Julia Burdge, 2014-10-16 Chemistry Third Edition by Julia Burdge offers a clear writing style written with the students in mind Julia uses her background of teaching hundreds of general chemistry students per year and creates content to offer more detailed explanation on areas where she knows they have problems With outstanding art a consistent problem solving approach interesting applications woven throughout the chapters and a wide range of end of chapter problems this is a great third edition text      **Addison-Wesley Chemistry** Antony C. Willbraham, Dennis D. Staley, Michael S. Matta, Edward L. Waterman, Prentice-Hall Staff, 2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link      *Pp/Chemistry* BarCharts, Inc., 2008-06-18      **Prentice Hall Chemistry**, 2000      Introductory Chemistry Nivaldo J. Tro, 2006

**Chemical News and Journal of Physical Science** William Crookes, James H. Gardiner, Gerald Druce, H. W.

Blood-Ryan,1900      *Instructors Resource Guide* Consortium,2001-11      **New England Journal of Education** ,1877  
     *The Electrical Journal* ,1891      Handbook of Cellular Chemistry Annabelle Cohen,1979      *Coagulation and Flocculation*  
 Petr Filip,Martin Pivokonský,2025-10-06 How to ensure clean potable water Hydrochemistry colloidal chemistry physics plus  
 engineering aspects are combined in this book for practical drinking water treatment Focusing on coagulation flocculation as  
 a key step in this process it provides principles optimisation and efficiency evaluation broader theoretical background and  
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