

Chapter 10: Chemical Quantities

Section 1 Notes – The Mole: A Measurement of Matter (Read pages 287-296)

Mole

- chemist _____ for number of _____
- equals _____ number = _____

Representative Particles

- atoms – _____
- molecules – _____
- formula units – _____
- ions – _____

Conversions

- _____ mole equals
 - _____ atoms, molecules, formula units, ions, things

Practice Problems (Do Together)

3. How many moles is 2.80×10^{24} atoms of Si?
4. How many moles if 2.17×10^{23} representative particles of bromine?
5. How many atoms are in 1.14 mol SO_2 ?
6. How many moles are in 4.65×10^{24} molecules of NO_2 ?

Additional Practice Problems

1. How many moles are equal to 9.03×10^{24} atoms of mercury?
2. How many atoms are in 1.00 mole of sucrose, $\text{C}_{12}\text{H}_{22}\text{O}_{11}$?
3. How many atoms of O are in 3.65 moles of $\text{C}_{12}\text{H}_{22}\text{O}_{11}$?

Chapter 10 Chemical Quantities Guided Practice Problems Answers

Anthea Maton



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Chemistry John S. Phillips, Cheryl Wistrom, 2000 **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them Now includes even more technology tools and activities to support differentiated instruction **Heat Energy** Anthea Maton, 1993 **Chemical Principles in Practice** Jerry A. Bell, 1967 This forward looking laboratory text includes thirty three experiments designed to serve high level introductory chemistry courses It is intended in part to give the students practice in techniques not only those generally considered the techniques of chemistry but also those of mathematics However the only prerequisite is a good background in high school mathematics Ideally suited for use with University Chemistry or College Chemistry by Bruce Mahan this book follows the physical chemistry approach of these and most other modern chemistry texts maintaining the same flavor emphasis and degree of sophistication All experiments are open ended and include suggestions for following them up There is considerable emphasis on the involvement of the student in planning his own procedures and quantitative thinking Publisher **Chemical News and Journal of Physical Science**, 1914 **Chemical News and Journal of Industrial Science**, 1914 *The Chemical News and Journal of Physical Science*, 1914 Biochemistry Donald Voet, Judith G. Voet, 2010-12-01 The Gold Standard in Biochemistry text books Biochemistry 4e is a modern classic that has been thoroughly revised Don and Judy Voet explain biochemical concepts while offering a unified presentation of life and its variation through evolution Incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge *The Chemical News*, 1914 **Inorganic Chemistry** Mark Weller, Mark T. Weller, Tina Overton, Jonathan Rourke, Fraser Armstrong, 2014 Leading the reader from the fundamental principles of inorganic chemistry right through to cutting edge research at the forefront of the subject Inorganic Chemistry Sixth Edition is the ideal course companion for the duration of a student s degree The authors have drawn upon their extensive teaching and research experience in updating this established text the sixth edition retains the much praised clarity of style and layout from previous editions while offering an enhanced Frontiers section Exciting new applications of inorganic chemistry have been added to this section in particular relating to materials chemistry and medicine This edition also sees a greater use of learning features to provide students with all the support they need for their studies Providing comprehensive coverage of inorganic chemistry while placing it in context this text will enable the reader to fully master this important subject Online Resource Centre For registered adopters of the text Figures marginal structures and tables of data ready to download Test bank For students Answers to self tests and exercises from the book Videos of chemical reactions Tables for group theory Web links Interactive structures and other resources on [www.chemtube3D.com](http://www.chemtube3d.com) College Physics

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