

Chapter 9 Review

- 1) What does stoichiometry mean? "measuring elements"
- 2) Before performing a stoichiometry problem, you must first do what with the chemical equation? **balance it**
- 3) The coefficients in a chemical equation represent what? **moles**
- 4) In a chemical equation, what relationships are shown? **molar ratios**
- 5) Solve the following mole-mole conversions using this equation:



- a) If 3.5 moles of sodium bicarbonate are decomposed, how many moles of carbon dioxide are produced?

$$3.5 \text{ mol NaHCO}_3 \times \frac{1 \text{ mol CO}_2}{2 \text{ mol NaHCO}_3} = 1.8 \text{ mol CO}_2$$

- b) If 1.29 moles of water are produced by the decomposition of sodium bicarbonate, how many moles of sodium carbonate are produced?

$$1.29 \text{ mol H}_2\text{O} \times \frac{1 \text{ mol Na}_2\text{CO}_3}{1 \text{ mol H}_2\text{O}} = 1.29 \text{ mol Na}_2\text{CO}_3$$

- c) How many moles of sodium bicarbonate are required to produce 19.5 moles of carbon dioxide?

$$19.5 \text{ mol CO}_2 \times \frac{2 \text{ mol NaHCO}_3}{1 \text{ mol CO}_2} = 39.0 \text{ mol NaHCO}_3$$

- 6) Use the equation in # 5 to solve the following mass-mass conversions.

- a) If given 10.5 grams of sodium bicarbonate, how many grams of sodium carbonate can be produced?

$$10.5 \text{ g NaHCO}_3 \times \frac{1 \text{ mol NaHCO}_3}{84.01 \text{ g NaHCO}_3} \times \frac{1 \text{ mol Na}_2\text{CO}_3}{2 \text{ mol NaHCO}_3} \times \frac{105.99 \text{ g Na}_2\text{CO}_3}{1 \text{ mol Na}_2\text{CO}_3} = 6.62 \text{ g Na}_2\text{CO}_3$$

- b) How many grams of sodium bicarbonate would be required to produce 9.0 grams of water?

$$9.0 \text{ g H}_2\text{O} \times \frac{1 \text{ mol H}_2\text{O}}{18.02 \text{ g H}_2\text{O}} \times \frac{2 \text{ mol NaHCO}_3}{1 \text{ mol H}_2\text{O}} \times \frac{84.01 \text{ g NaHCO}_3}{1 \text{ mol NaHCO}_3} = 84 \text{ g NaHCO}_3$$

- 7) What conversion factor (mole ratio) would you use to solve for moles of sulfur formed from sulfur dioxide in the reaction



Chemistry Moles Answer Key

Disha Experts



Chemistry Moles Answer Key:

Chemistry for the Utterly Confused John T. Moore, Richard H. Langley, 2007-06-01 Banish bafflement in this tough subject From formulas and lab techniques to the periodic table Chemistry for the Utterly Confused focuses on the areas of maximum confusion and breaks down the most difficult chemistry topics into easy to understand concepts This invaluable guide also teaches problem solving skills you need to master this imposing subject Whether you re in high school in college or simply brushing up on chemistry knowledge this fun easily accessible book will make understanding chemistry a breeze

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Chemistry James C. Hill, 2000 This text defines the concepts needed to learn or review cardiac auscultation The combination of audio and text explains how to identify and interpret normal and common abnormal heart sounds Some heart sounds are reproduced on a heart sound simulator allowing for a clear crisp grasp of specific individual sounds Others are recorded from real patients to distinguish between similar heart and lung sounds and to help the listener select the heart sounds from the auditory milieu **Student's Guide, Chemistry, the Central Science** James C. Hill, 1991 **Advanced Placement Examination in Chemistry** Frederick J. Rowe, 1990 New for 1990 this is the only preparation guide available for this exam Includes analyses of past tests review of chemistry topics and samples of all multiple choice and free response problems

Test Bank to Accompany Chemistry and the Living Organism Bloomfield, Catherine E. MacGowan, 1995-12-08 **Saunders Interactive General Chemistry CD-ROM** Mary L Kotz, John C. Kotz, William J. Vining, Justin T. Fermann, 1998-11 *Easy Chemistry Step-by-Step* Marian DeWane, 2014-06-27 IF YOU WANT TO UPDATE THE INFORMATION ON YOUR TITLE SHEET THEN YOU MUST UPDATE COPY IN THE PRODUCT INFORMATION COPY FIELD COPY IN THE TIPSHEET COPY FIELD DOES NOT APPEAR ON TITLE SHEETS Easy Step by Step the quickest route to learning a subject through a solid grounding in the basics About the Book What you won't find in Easy Chemistry Step by Step is a lot of endless drills Instead you get a clear explanation that breaks down complex concepts into easy to understand steps followed by highly focused exercises that are linked to core skills enabling learners to grasp when and how to apply those techniques Key Selling Features Large step by step charts breaking down each step within a process and showing clear connections between topics and annotations to clarify difficulties Stay in step panels show how to cope with variations to the core steps Step it up exercises link practice to the core steps already presented Missteps and stumbles highlight common errors to avoid Successful series format in foreign languages 130 000 copies sold now extended to popular study categories math science English grammar Strong graphic elements emphasize step by step processes and connections between topics Clear explanations and annotations explain complex concepts in everyday language Market Audience For beginners who need help with grasping the core concepts of chemistry and for more advanced learners who want to review or firm up the basics About the Author Marian DeWane Boise ID

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