

Mole Calculation Practice Worksheet

Answer the following questions:

- 1) How many moles are in 25 grams of water?

$$\frac{25 \text{ g H}_2\text{O}}{18.02 \text{ g H}_2\text{O}} \times \frac{1 \text{ mol H}_2\text{O}}{1} = 1.4 \text{ moles}$$

- 2) How many grams are in 4.5 moles of Li_2O ?

$$\frac{4.5 \text{ mol Li}_2\text{O}}{1 \text{ mol Li}_2\text{O}} \times \frac{29.88 \text{ g Li}_2\text{O}}{1} = 130 \text{ g}$$

- 3) How many molecules are in 23 moles of oxygen?

$$\frac{23 \text{ mol O}_2}{1 \text{ mol O}_2} \times \frac{6.02 \times 10^{23} \text{ molecules}}{1} = 1.4 \times 10^{25} \text{ molecules}$$

- 4) How many moles are in 3.4×10^{23} molecules of H_2SO_4 ?

$$\frac{3.4 \times 10^{23} \text{ molecules H}_2\text{SO}_4}{6.02 \times 10^{23} \text{ molecules H}_2\text{SO}_4} \times \frac{1 \text{ mol H}_2\text{SO}_4}{1} = 0.56 \text{ moles}$$

- 5) How many molecules are in 25 grams of NH_3 ?

$$\frac{25 \text{ g NH}_3}{17.03 \text{ g NH}_3} \times \frac{1 \text{ mol NH}_3}{1} \times \frac{6.02 \times 10^{23} \text{ molecules NH}_3}{1 \text{ mol NH}_3} = 8.8 \times 10^{23} \text{ molecules}$$

- 6) How many grams are in 8.2×10^{22} molecules of N_2I_4 ?

$$\frac{8.2 \times 10^{22} \text{ molecules N}_2\text{I}_4}{6.02 \times 10^{23} \text{ molecules N}_2\text{I}_4} \times \frac{1 \text{ mol N}_2\text{I}_4}{1} \times \frac{789.42 \text{ g N}_2\text{I}_4}{1 \text{ mol N}_2\text{I}_4} = 110 \text{ g}$$

More Mole Calculation Answer Key

David L. Parkhurst



More Mole Calculation Answer Key:

Basics for Chemistry David A. Ucko, 2013-09-24 *Basics of Chemistry* provides the tools needed in the study of General Chemistry such as problem solving skills calculation methods and the language and basic concepts of chemistry The book is designed to meet the specific needs of underprepared students Concepts are presented only as they are needed and developed from the simple to the complex The text is divided into 18 chapters each covering some particular aspect of chemistry such as matter energy and measurement the properties of atoms description of chemical bonding study of chemical change and nuclear and organic chemistry Undergraduate students will find the book as a very valuable academic material

User's Guide to PHREEQC David L. Parkhurst, 1995 [Water-resources Investigations Report](#), 1995 *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

Physical Science, with Environmental and Other Practical Applications Jonathan Turk, Amos Turk, 1987 **Ebook: Chemistry: The Molecular Nature of Matter and Change** Silberberg, 2015-01-16 *Ebook Chemistry The Molecular Nature of Matter and Change* **International Critical Tables of Numerical Data, Physics, Chemistry and Technology** National Research Council (U.S.), Callie Hull, 1928 **International Critical Tables of Numerical Data, Physics, Chemistry and Technology**, 1928 *Chemistry* Charles E. Mortimer, 1983 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

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