

# STOICHIOMETRY: MOLE-MOLE PROBLEMS



How many moles of hydrogen are needed to completely react with two moles of nitrogen?

$$2 \text{ mol } N_2 \left| \frac{3 \text{ mol } H_2}{1 \text{ mol } N_2} \right| = 6$$

6 moles  $H_2$



How many moles of oxygen are produced by the decomposition of six moles of potassium chlorate?

$$6 \text{ moles } KClO_3 \times \frac{3 \text{ mol } O_2}{2 \text{ mol } KClO_3} = \frac{18}{2} = 9$$

9 moles of  $O_2$



How many moles of hydrogen are produced from the reaction of three moles of zinc with an excess of hydrochloric acid?

$$3 \text{ mol } Zn \times \frac{1 \text{ mol } H_2}{1 \text{ mol } Zn} = 3$$

3 moles of  $H_2$



How many moles of oxygen are necessary to react completely with four moles of propane ( $C_3H_8$ )?

$$4 \text{ mol } C_3H_8 \times \frac{5 \text{ mol } O_2}{1 \text{ mol } C_3H_8}$$

20 mol of  $O_2$



How many moles of potassium nitrate are produced when two moles of potassium phosphate react with two moles of aluminum nitrate?

$$2 \text{ mol } K_3PO_4 \left| \frac{3 \text{ mol } KNO_3}{1 \text{ mol } K_3PO_4} \right| =$$

6 moles of  $KNO_3$

# Introduction To Stoichiometry Packet Answer Key

**Carolina Biological Supply Company**



## **Introduction To Stoichiometry Packet Answer Key:**

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Flow Chemistry in Drug Discovery Jesus Alcazar,Antonio de la Hoz,Angel Díaz-Ortiz,2021-12-08 This book reviews the challenges and opportunities posed by flow chemistry in drug discovery and offers a handy reference tool for medicinal chemists interested in the synthesis of biologically active compounds Prepared by expert contributors the respective chapters cover not only fundamental methodologies and reactions such as the application of catalysis especially biocatalysis and organocatalysis and non conventional activation techniques from photochemistry to electrochemistry but also the development of new process windows processes and reactions in drug synthesis Particular attention is given to automatization and library synthesis which are of great importance in the pharmaceutical industry Readers will also find coverage on selected topics of general interest such as how flow chemistry is contributing to drug discovery R D in developing countries and the green character of this enabling technology for example in the production of raw materials for the pharmaceutical industry from waste Given its scope the book appeals to medicinal chemistry researchers working in academia and industry alike as well as professionals involved in scale up and drug development     *Books in Print*

*Supplement* ,2002     Carolina Science and Math Carolina Biological Supply Company,2003     NASA Tech Briefs ,2008

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Textbooks & Serials in Print ,2005 ,2005     **Energy Research Abstracts** ,1990     **Advances in Automotive Control 2001** U. Kiencke,G. L. Gissinger,2001 This Proceedings contains the papers presented at the Third IFAC Workshop on ADVANCES IN AUTOMOTIVE CONTROL held in Karlsruhe Germany on 28 30 March 2001 As the subject indicates the aim of this workshop was to discuss not only the latest advances related to motor vehicles but also and more generally to exchange ideas between academic partners car manufacturers and subcontractors The plenary lectures are of great importance and

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