

STUDENT BOOK ANSWERS
To come
Chapter 9: Gas laws
Worked example 9.1

- 1 $n = \frac{V}{V_m} = \frac{2.33}{22.71} = 0.1026 \text{ mol}$
 $m = n \times MM = 0.1026 \times (12.01 + (4 \times 1.008)) = 1.646 = 1.65 \text{ g (3sf)}$
- 2 $n = \frac{m}{MM} = \frac{23.0}{14.01 + (3 \times 1.008)} = 1.350 \text{ mol}$
 $V = n \times V_m = 1.350 \times 24.79 = 33.47 = 33.5 \text{ L (3sf)}$

Worked example 9.2

- 1 $2\text{Na(s)} + 2\text{H}_2\text{O(l)} \rightarrow 2\text{NaOH(aq)} + \text{H}_2\text{(g)}$
 $n(\text{Na}) = \frac{m}{MM} = \frac{1.87}{22.99 + 16.00 + 1.008} = 0.04675 \text{ mol}$
 $n(\text{H}_2) = \frac{1}{2} \times n(\text{Na}) = 0.5 \times 0.04675 = 0.02338 \text{ mol}$
 $V = n \times V_m = 0.02338 \times 24.79 = 0.5795 = 0.580 \text{ L (3sf)}$
- 2 $n(\text{HCl}) = \frac{V}{V_m} = \frac{13.4}{22.71} = 0.5900 \text{ mol}$
 $2\text{KCl(aq)} + \text{H}_2\text{SO}_4\text{(aq)} \rightarrow 2\text{HCl(g)} + \text{K}_2\text{SO}_4\text{(aq)}$
 $n(\text{KCl}) = n(\text{HCl}) = 0.5900 \text{ mol}$
 $m(\text{KCl}) = n \times MM = 0.5900 \times (39.10 + 35.45) = 43.98 = 44.0 \text{ g (3sf)}$

Check your understanding 9.1/9.2

- 1 The volume of a gas changes with temperature and pressure, both of which compress or expand the gas particles.
- 2 Use the formula $n = \frac{V}{V_m}$ to convert the volume of gas to a number of moles. V_m depends upon the temperature of the gas. Use $m = n \times MM$ to convert the number of moles (n) to a mass (m) by multiplying by the molecular mass (MM).
- 3 **a** **i** $2 \times 250 = 500 \text{ mL}$
ii 250 mL
- b** **i** 500 mL
ii Nothing, as the law of combining volumes only applies to gases.

Chapter 9 Notes Cengage Learning

**A. Koeberle-Schmid, D. Kenyon-
Rouvinez, E. Poza, INOGUCHI**

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1, 2, 3 Code!-Instructor's Manual Ken Green,2006-08 *Governance in Family Enterprises* A. Koeberle-Schmid,D. Kenyon-Rouvinez,E. Poza,INOBUCHI,2013-12-02 Presents a comprehensive overview of governance in family enterprises including practical management knowledge in easy to use frameworks and interviews with renowned family enterprise owners and managers Readers will benefit from the book s systematic approach and the opportunity to learn from the experience of other family enterprises **Science and Technology in World History, Volume 1** David Deming,2014-01-10 Science is a living organic activity the meaning and understanding of which have evolved incrementally over human history This book the first in a roughly chronological series explores the development of the methodology and major ideas of science in historical context from ancient times to the decline of classical civilizations around 300 A D It includes details specific to the histories of specialized sciences including astronomy medicine and physics along with Roman engineering and Greek philosophy It closely describes the contributions of such individuals as Pythagoras Hippocrates Socrates Plato Aristotle Alexander the Great Euclid Archimedes Ptolemy Seneca Pliny the Elder and Galen *Science and Technology in World History, Volume 2* David Deming,2014-01-10 Science is a living organic activity the meaning and understanding of which have evolved incrementally over human history This book the second in a roughly chronological series explores the evolution of science from the advents of Christianity and Islam through the Middle Ages focusing especially on the historical relationship between science and religion Specific topics include technological innovations during the Middle Ages Islamic science the Crusades Gothic cathedrals and the founding of Western universities Close attention is given to such figures as Paul the Apostle Hippolytus Lactantius Cyril of Alexandria Hypatia Cosmas Indicopleustes and the Prophet Mohammed Student Study Guide CENGAGE Learning,Steven D. Grossman,1999-12 *Executive MBA (EMBA) - City of London College of Economics - 10 months - 100% online / self-paced* City of London College of Economics, Overview An EMBA or Master of Business Administration in General Management is a degree that will prepare you for management positions Content Strategy Organisational Behaviour Operations Management Negotiations Marketing Leadership Financial Accounting Economics Decision Models Data Analysis Corporate Finance Duration 10 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and we will send you the assignment questions Study material The study material will be provided in separate files by email download link **Marketing** William Morgan Pride,O. C. Ferrell,2010 To maximise this publications core strengths the authors have included revised concepts features and examples throughout to maintain timely coverage of current marketing trends and strategies **Executive MBA in IT - City of London College of Economics - 12 months - 100% online / self-paced** City of London College of Economics, Overview An MBA in information technology or a Master of Business Administration in Information Technology is a degree that will prepare you to be a leader in the IT industry Content Managing Projects and IT

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s road map through the telecourse linking the video programs to each of the accompanying textbooks It is a starting point for
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