



Name: _____
Date: _____

COUNTING ATOMS

WORKSHEET

- Chemical formulas can have three components.
 - The _____ which are represented by a single uppercase letter, or represented by an uppercase letter followed by a lowercase letter. This tells you the types of elements in the compound.
 - The _____ which are numbers that are found on the lower _____ - hand side of each element symbol. This tells you the number of _____ of this element in the molecule. If an element symbol has no subscript next to it, then this indicates that there is only _____ atom of this element in the molecule.
 - The _____ which surround some groups of atoms indicate that the numbers of all of the atoms inside the bracket need to be _____ by the _____ on the outside of the bracket found on the lower _____ - hand side of that bracket.
- Record the number of each atom in each molecule, then record the total number of atoms in the molecule:

1) NaOH	
Element	# of Atoms
Total	

4) Li ₂ SO ₄	
Element	# of Atoms
Total	

7) H ₂ COCH ₃	
Element	# of Atoms
Total	

10) NH ₄ C ₂ H ₃ O ₂	
Element	# of Atoms
Total	

13) Ca ₃ (PO ₄) ₂	
Element	# of Atoms
Total	

2) HNO ₃	
Element	# of Atoms
Total	

5) NH ₄ Cl	
Element	# of Atoms
Total	

8) Mg(OH) ₂	
Element	# of Atoms
Total	

11) NaC ₂ H ₃ O ₂	
Element	# of Atoms
Total	

14) Fe ₂ (CO ₃) ₃	
Element	# of Atoms
Total	

3) U ₂ O	
Element	# of Atoms
Total	

6) CaClO ₄	
Element	# of Atoms
Total	

9) Al(OH) ₃	
Element	# of Atoms
Total	

12) (NH ₄) ₃ PO ₄	
Element	# of Atoms
Total	

15) Al ₂ (SO ₄) ₃	
Element	# of Atoms
Total	

Counting Atoms Study Guide Answers

David R. Klein



Counting Atoms Study Guide Answers:

The Practice of Chemistry Study Guide & Solutions Manual Pamela Mills, Amina El-Ashmawy, 2003-04-14 Designed to help students understand the material better and avoid common mistakes Also includes solutions and explanations to odd numbered exercises **Organic Chemistry, 5e Student Study Guide and Solutions Manual** David R. Klein, Laurie S. Starkey, 2025-03-18 Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems With Organic Chemistry Student Study Guide and Solutions Manual 5th Edition students can learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry *Organic Chemistry Study Guide and Solutions Manual* Marc Loudon, Jim Parise, Lisa Bonner, 2024-08-09 The Study Guide and Solutions Manual offers several study tools for students Study Guide Links are brief supplements to text material and provide hints for study shortcuts approaches to problem solving or additional explanations of topics that typically cause difficulty Further Explorations are short discussions that provide additional depth on content in the text Reaction Reviews present the reactions in the chapter in detailed outline form This summary consolidates the reactions of the chapter in one place and presents not only the reactions themselves but also the essential features of their mechanisms and stereochemistry for cases in which these issues are discussed in the text Solutions are provided for all of the over 1600 problems in the text Many include worked out examples in which not only the answer is given but also the detailed approach to the solution is discussed Chemistry, Student Study Guide James E. Brady, Fred Senese, 2008-01-28 The image on the front cover depicts a carbon nanotube emerging from a glowing plasma of hydrogen and carbon as it forms around particles of a metal catalyst Carbon nanotubes are a recently discovered allotrope of carbon Three other allotropes of carbon buckyballs graphite and diamond are illustrated at the left as is the molecule methane CH_4 from which nanotubes and buckyballs can be made The element carbon forms an amazing number of compounds with structures that follow from simple methane found in natural gas to the complex macromolecules that serve as the basis of life on our planet The study of chemistry also follows from the simple to the more complex and the strength of this text is that it enables students with varied backgrounds to proceed together to significant levels of achievement

Organic Chemistry, Student Study Guide and Solutions Manual David R. Klein, 2017-01-04 This is the Student Study Guide and Solutions Manual to accompany Organic Chemistry 3e Organic Chemistry 3rd Edition is not merely a compilation of principles but rather it is a disciplined method of thought and analysis Success in organic chemistry requires mastery in two core aspects fundamental concepts and the skills needed to apply those concepts and solve problems Readers must learn to become proficient at approaching new situations methodically based on a repertoire of skills These skills are vital for successful problem solving in organic chemistry Existing textbooks provide extensive coverage of the principles but there is far less emphasis on the skills needed to actually solve problems Study Guide/Selected Solutions Manual Julie R.

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programme covers essential GCSE topics in double page spreads These spreads indicate how much time should be spent on each section and combine clear and concise explanations flow charts spidergrams and illustrations with progress check questions and answers *Study Guide and Solutions Manual* Neil E. Schore, 2002-08-02

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