

### CH301 Worksheet 1 Answer Key: High School Chemistry Questions.

*For each problem, identify the kind of question BEFORE answering it.*

1. A 25 kg ball has a kinetic energy of 225 J. What is the speed of the ball?  
*What kind of question is this? energy*  
3 m/s
2. How many molecules of water are there in 100 mL of water? (The density of water = 1.000 g/mL)  
*What kind of question is this? stoichiometry*  
 $3.34 \times 10^{24}$  molecules
3. Given that the atomic mass of carbon is given as 12.0107 g/mol, what are the approximate relative abundances of the two isotopes  $^{12}\text{C}$  and  $^{13}\text{C}$ ? *What kind of question is this? isotopes*  
98.93%  $^{12}\text{C}$ , 1.07%  $^{13}\text{C}$
4. In the electrolysis of  $2\text{H}_2\text{O} \rightarrow 2\text{H}_2 + \text{O}_2$ , how many atom of O in  $\text{O}_2$  are made from 4 g of  $\text{H}_2\text{O}$ ?  
*What kind of question is this? stoichiometry*  
 $1.34 \times 10^{23}$  molecules
5. What are the most likely ionic forms of (a) sodium and (b) calcium?  
*What kind of question is this? periodic trends*  
(a)  $\text{Na}^+$ ; (b)  $\text{Ca}^{2+}$
6. What is the product of a reaction between metallic lithium and oxygen,  $\text{O}_2$ ?  
*What kind of question is this? oxidation numbers*  
 $\text{Li}_2\text{O}$
7. Name the following species: (a)  $\text{Cl}^-$ , (b)  $\text{NO}_3^-$ , (c)  $\text{C}_3\text{H}_8$ . *What kind of question is this? naming*  
(a) chloride; (b) nitrate; (c) propane
8. The combustion of ethanol has the following equation:  $\text{C}_2\text{H}_5\text{OH} + 3 \text{O}_2 \rightarrow 2 \text{CO}_2 + 2 \text{H}_2\text{O}$   
What mass of  $\text{CO}_2$  is formed from 1 kg of ethanol? *What kind of question is this? stoichiometry*  
1.913 kg
9. Vitamin K contains 78.95% C, 3.95% H, and 21.05% O by mass. What is its empirical formula?  
*What kind of question is this? empirical formula calculation*  
 $\text{C}_{20}\text{H}_{30}\text{O}$
10. Given that vitamin K (see question 9) has molecular weight of 158.15 g/mol, what is its molecular formula? *What kind of question is this? molecular formula calculation*  
 $\text{C}_{40}\text{H}_{60}\text{O}_2$

# High School Chemistry Workbook Answers

**LL Leslie**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **High School Chemistry Workbook Answers:**

## Reviewing **High School Chemistry Workbook Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**High School Chemistry Workbook Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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