

### 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 Test Questions And Answers

**Liyong Dong**



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