CH301 Worksheet I 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 mm/s

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

 3.34×10^{24} molecules

 Given that the atomic mass of carbon is given as 12.0107 g/mol, what are the approximate relative abundances of the two isotopes ¹²C and ¹³C? What kind of question is this? isotopes

98.93% 12C, 1.07% 13C

In the electrolysis of 2H₂O → 2H₂ + O₂, how many atom of O in O₂ are made from 4 g of H₂O?
What kind of question is this? stoichiometry

 1.34×10^{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) Na"; (b) Ca2"

What is the product of a reaction between metallic lithium and oxygen, O₂?

What kind of question is this? oxidation numbers

Li₂O

Name the following species: (a) Cl', (b) NO₃', (c) C₃H₈. What kind of question is this? naming

(a) chloride; (b) nitrate; (c) propane

The combustion of ethanol has the following equation: C₂H₂OH + 3 O₂ → 2 CO₂ + 2 H₂O
 What mass of CO₂ is formed from 1 kg of ethanol? What kind of question is this? stoichiometry

 $1.913 \, \mathrm{kg}$

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

 C_5H_5O

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

 $C_{10}H_0O_2$

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Raffaela Di Napoli

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