YUKON CHEMISTRY 11 (MCH--11) · UNIT B · 10 QUESTIONS

The Mole — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

1 **In sodium chloride, NaCl, the percent by mass of chlorine is about**

- A 39.3
- B 60.7
- C 45.0
- D 55.0

Understand It with Pulse | Flag a mistake

2 **A compound contains 24 g of carbon and 4 g of hydrogen. Its empirical formula is**

- A CH_2
- B CH_3
- C CH_4
- D C_2H_4

Understand It with Pulse | Flag a mistake

3 **A compound has empirical formula CH_2 and molar mass 56 g per mole. Its molecular formula is**

- **A** C_2H_4
- **B** C_3H_6
- **C** C_4H_8
- **D** C_5H_{10}

Understand It with Pulse | Flag a mistake

4 **A sample contains 3 moles of water. The amount of oxygen atoms in it, in moles, is**

- **A** 1
- **B** 2
- **C** 3
- **D** 6

Understand It with Pulse | Flag a mistake

5 **The molar mass of hydrogen peroxide, H_2O_2, is**

- **A** 18 g
- **B** 34 g
- **C** 32 g
- **D** 50 g

Understand It with Pulse | Flag a mistake

6 **Hydrogen peroxide has molar mass 34 g per mole. The amount in 17 g of hydrogen peroxide, in moles, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The molar mass of glucose, $C_6H_{12}O_6$, is**

- **A** 90 g
- **B** 120 g
- **C** 180 g
- **D** 240 g

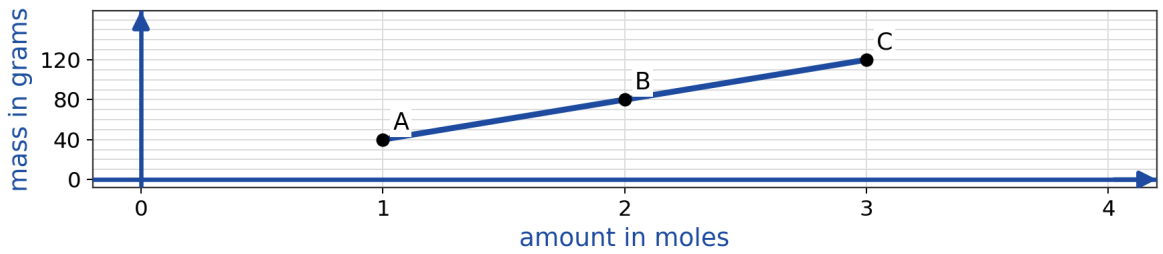
Understand It with Pulse | Flag a mistake

8 **Glucose has molar mass 180 g per mole. The mass of 0.5 mole of glucose, in grams, is ____**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The graph shows mass against amount for magnesium oxide. The mass at 2 moles, in grams, is ____**



ANSWER _____

Understand It with Pulse | Flag a mistake

10 **One mole of helium atoms and one mole of argon atoms contain the same number of**

A atoms

B protons

C neutrons

D grams of substance

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. B
2. A
3. C
4. C
5. B
6. 0.5
7. C
8. 90
9. 80
10. A

© 2026 Brett Robbins. All Rights Reserved.