The Mole, Balancing Equations, and Molar Mass — 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 **The molar mass of carbon dioxide, CO_2, is about**

- **A** 44 grams per mole
- **B** 28 grams per mole
- **C** 32 grams per mole
- **D** 18 grams per mole

Understand It with Pulse | Flag a mistake

2 **Balancing an equation never changes a subscript because that would change the**

- A coefficient
- B identity of the substance
- C state
- D temperature

Understand It with Pulse | Flag a mistake

3 **One mole of oxygen gas, O_2, has a mass of about**

- A 16 grams
- B 64 grams
- C 32 grams
- D 8 grams

Understand It with Pulse | Flag a mistake

4 The number of moles in 36 grams of water is

- A 1
- B 3
- C 4
- D 2

Understand It with Pulse | Flag a mistake

5 The equation N_2 plus $3H_2$ gives $2NH_3$ is balanced. The coefficient in front of H_2 is

ANSWER _____

Understand It with Pulse | Flag a mistake

6 The molar mass of HCl is 36.5 grams per mole. A sample of 109.5 grams contains, in moles

ANSWER _____

Understand It with Pulse | Flag a mistake

7 **The molar mass of MgO is 40 grams per mole. A sample of 120 grams contains, in moles**

ANSWER _____

Understand It with Pulse | Flag a mistake

8 **The molar mass of HCl is 36.5 grams per mole. A sample of 4 moles has a mass, in grams, of**

ANSWER _____

Understand It with Pulse | Flag a mistake

9 **The equation 2Mg plus O_2 gives 2MgO is balanced. The coefficient in front of MgO is**

ANSWER _____

Understand It with Pulse | Flag a mistake

10 **The equation C plus O_2 gives CO_2 is balanced. The coefficient in front of CO_2 is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1.	A	**5.**	3	**9.**	2
2.	B	**6.**	3	**10.**	1
3.	C	**7.**	3		
4.	D	**8.**	146		

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