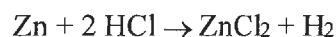


1. Given the equation:



How many moles of HCl would be required to produce a total of 2 moles of H₂?

- A) 0.5 B) 2 C) 3 D) 4

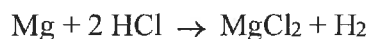
2. Given the reaction:



What is the total number of moles of water needed to make 2.5 moles of C₆H₁₂O₆?

- A) 2.5 B) 6.0 C) 12 D) 15

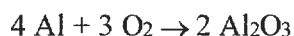
3. Given the reaction:



What is the total number of grams of Mg consumed when 0.50 mole of H₂ is produced?

- A) 6.0 g B) 12 g C) 3.0 g D) 24 g

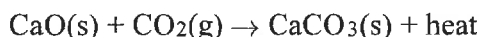
4. Given the reaction:



What is the total number of moles of aluminum oxide that can be formed when 54 grams of aluminum reacts completely with oxygen?

- A) 1.0 mole B) 2.0 moles
C) 3.0 moles D) 4.0 moles

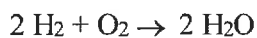
5. Given the balanced equation representing a reaction:



What is the total mass of CaO(s) that reacts completely with 88 grams of CO₂(g) to produce 200. grams of CaCO₃(s)?

- A) 56 g B) 88 g C) 112 g D) 288 g

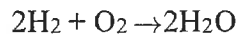
6. Given the reaction:



The total number of grams of O₂ needed to produce 54 grams of water is

- A) 36 B) 48 C) 61 D) 75

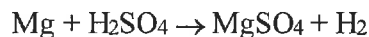
7. Given the balanced equation representing a reaction:



What is the total mass of water formed when 8 grams of hydrogen reacts completely with 64 grams of oxygen?

- A) 18 g B) 36 g C) 56 g D) 72 g

8. Given the reaction:



How many grams of H₂SO₄ are needed to produce exactly 11.2 liters of H₂, measured at STP?

- A) 24.5 B) 49.0 C) 98.0 D) 196

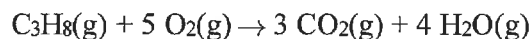
9. Given the reaction:



What volume of C₈H₁₈(g) will completely react to produce exactly 36 liters of H₂O(g)?

- A) 27 L B) 2.0 L C) 36 L D) 4.0 L

10. Given the balanced equation:



What is the total number of liters of CO₂(g) produced when 20.0 liters of O₂(g) are completely consumed?

- A) 12.0 L B) 22.4 L
C) 3.00 L D) 5.00 L

Answer Key
stoichiometry practice test

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