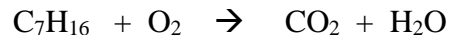


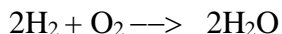
8th Grade Science – Week 25

1. In this unbalanced chemical reaction below, which components are the **reactants**?



- (A) C_7H_{16} and CO_2
(B) C_7H_{16} and O_2
(C) C_7H_{16} and H_2O
(D) CO_2 and H_2O
2. What type of chemical reaction is listed below?
- $$\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$$
- (A) Single-replacement reaction
(B) Double-replacement reaction
(C) Synthesis reaction
(D) Decomposition reaction
3. In the complete **combustion** reaction of propane (C_3H_8) with oxygen gas, what are the **products**?
- (A) C_3H_8 and O_2
(B) C_3H_8 and CO_2
(C) H_2O and CO_2
(D) O_2 and H_2O

4. Use the following balanced equation. Which one of the following statements is *false*?



- (A) Two molecules of H_2 will produce one molecule of H_2O .
(B) Two molecules of H_2 will produce two molecules of H_2O .
(C) One molecule of O_2 will react with 2 molecules of H_2
(D) One molecule of O_2 will produce 2 molecules of H_2O .
5. Which of the following is true in a balanced chemical reaction?
- (A) Atoms are conserved.
(B) Mass is conserved.
(C) A and B are both correct.
(D) Nothing is conserved.

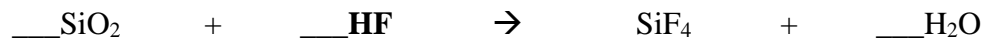
6. What are the coefficients of the following reaction when correctly balanced?



- (A) 1, 3, 2
(B) 1, 2, 3
(C) 1, 1, 1
(D) 2, 1, 3

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7. First balance the equation below. Then, determine what is the coefficient for hydrogen fluoride?



- (A) 1
(B) 2
(C) 3
(D) 4
8. What are the coefficients of the following reaction when correctly balanced?
- $$\underline{\quad}\text{CaCl}_2 + \underline{\quad}\text{Na}_3\text{PO}_4 \rightarrow \underline{\quad}\text{Ca}_3(\text{PO}_4)_2 + \underline{\quad}\text{NaCl}$$

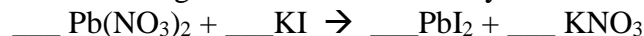
- (A) 1, 1, 1, 1
(B) 3, 2, 1, 6
(C) 1, 2, 3, 4
(D) 2, 3, 1, 6

9. What are the coefficients of the following reaction when correctly balanced?



- (A) 1, 1, 1
(B) 1, 2, 3
(C) 1, 2, 2
(D) 2, 2, 1

10. What are the coefficients of the following reaction when correctly balanced?



- (A) 2, 1, 2, 1
(B) 1, 1, 1, 1
(C) 1, 2, 2, 1
(D) 1, 2, 1, 2