



Chemistry

Name: _____

Section _____

BALANCING EQUATIONS Date: _____

Balance the following equations by adding the proper coefficients. Identify the reaction type.

1. $\text{H}_3\text{PO}_4 + \text{KOH} \rightarrow \text{K}_3\text{PO}_4 + \text{H}_2\text{O}$ _____
2. $\text{K} + \text{B}_2\text{O}_3 \rightarrow \text{K}_2\text{O} + \text{B}$ _____
3. $\text{Na} + \text{NaNO}_3 \rightarrow \text{Na}_2\text{O} + \text{N}_2$ _____
4. $\text{C} + \text{S}_8 \rightarrow \text{CS}_2$ _____
5. $\text{Na} + \text{O}_2 \rightarrow \text{Na}_2\text{O}$ _____
6. $\text{N}_2\text{O}_5 \rightarrow \text{N}_2 + \text{O}_2$ _____
7. $\text{H}_3\text{PO}_4 + \text{Mg(OH)}_2 \rightarrow \text{Mg}_3(\text{PO}_4)_2 + \text{H}_2\text{O}$ _____
8. $\text{KClO}_3 \rightarrow \text{KCl} + \text{O}_2$ _____
9. $\text{NaOH} + \text{H}_2\text{CO}_3 \rightarrow \text{Na}_2\text{CO}_3 + \text{H}_2\text{O}$ _____
10. $\text{Al(OH)}_3 + \text{H}_2\text{CO}_3 \rightarrow \text{Al}_2(\text{CO}_3)_3 + \text{H}_2\text{O}$ _____
11. $\text{Al} + \text{S}_8 \rightarrow \text{Al}_2\text{S}_3$ _____
12. $\text{Cs} + \text{N}_2 \rightarrow \text{Cs}_3\text{N}$ _____
13. $\text{Mg} + \text{Cl}_2 \rightarrow \text{MgCl}_2$ _____
14. $\text{C}_3\text{H}_6 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ _____
15. $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$ _____
16. $\text{C}_{10}\text{H}_{22} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ _____
17. $\text{Al(OH)}_3 + \text{HBr} \rightarrow \text{AlBr}_3 + \text{H}_2\text{O}$ _____
18. $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ _____
19. $\text{C}_3\text{H}_8 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ _____
20. $\text{Li} + \text{AlCl}_3 \rightarrow \text{LiCl} + \text{Al}$ _____
21. $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$ _____
22. $\text{Na} + \text{Cl}_2 \rightarrow \text{NaCl}$ _____
23. $\text{NH}_3 + \text{HCl} \rightarrow \text{NH}_4\text{Cl}$ _____
24. $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$ _____
25. $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$ _____