

Balancing Chemical Reactions Worksheet #1

Balance the following chemical reactions and indicate the type of reaction:

1. $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$
2. $\text{S}_8 + \text{O}_2 \rightarrow \text{SO}_2$
3. $\text{HgO} \rightarrow \text{Hg} + \text{O}_2$
4. $\text{Zn} + \text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2$
5. $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$
6. $\text{C}_{10}\text{H}_{16} + \text{Cl}_2 \rightarrow \text{C} + \text{HCl}$
7. $\text{Si}_2\text{H}_2 + \text{O}_2 \rightarrow \text{SiO}_2 + \text{H}_2\text{O}$
8. $\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$
9. $\text{C}_7\text{H}_6\text{O}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
10. $\text{FeS}_2 + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2$
11. $\text{Fe}_2\text{O}_3 + \text{H}_2 \rightarrow \text{Fe} + \text{H}_2\text{O}$
12. $\text{K} + \text{Br}_2 \rightarrow \text{KBr}$
13. $\text{C}_2\text{H}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
14. $\text{H}_2\text{O}_2 \rightarrow \text{H}_2\text{O} + \text{O}_2$
15. $\text{C}_7\text{H}_{16} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
16. $\text{SiO}_2 + \text{HF} \rightarrow \text{SiF}_4 + \text{H}_2\text{O}$
17. $\text{KClO}_2 \rightarrow \text{KCl} + \text{O}_2$
18. $\text{KClO}_2 \rightarrow \text{KClO}_4 + \text{KCl}$
19. $\text{P}_4\text{O}_{10} + \text{H}_2\text{O} \rightarrow \text{H}_3\text{PO}_4$
20. $\text{Sb} + \text{O}_2 \rightarrow \text{Sb}_4\text{O}_6$
21. $\text{C}_2\text{H}_8 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$