

Balancing Equations Worksheet # 1 Score _____ Name _____

Use coefficients to balance the following:

1. $\text{Cu} + \text{H}_2\text{O} \rightarrow \text{CuO} + \text{H}_2$
2. $\text{Al}(\text{NO}_3)_3 + \text{NaOH} \rightarrow \text{Al}(\text{OH})_3 + \text{NaNO}_3$
3. $\text{KNO}_3 \rightarrow \text{KNO}_2 + \text{O}_2$
4. $\text{Fe} + \text{H}_2\text{SO}_4 \rightarrow \text{Fe}_2(\text{SO}_4)_3 + \text{H}_2$
5. $\text{O}_2 + \text{CS}_2 \rightarrow \text{CO}_2 + \text{SO}_2$
6. $\text{Cu} + \text{Cl}_2 \rightarrow \text{CuCl}_2$
7. $\text{Mg} + \text{N}_2 \rightarrow \text{Mg}_3\text{N}_2$
8. $\text{WO}_3 + \text{H}_2 \rightarrow \text{W} + \text{H}_2\text{O}$
9. $\text{PdCl}_2 + \text{HNO}_3 \rightarrow \text{Pd}(\text{NO}_3)_2 + \text{HCl}$
10. $\text{RbBr} + \text{AgCl} \rightarrow \text{AgBr} + \text{RbCl}$
11. $\text{HfCl}_3 + \text{Al} \rightarrow \text{HfCl}_2 + \text{AlCl}_3$
12. $\text{Zn} + \text{CrCl}_3 \rightarrow \text{CrCl}_2 + \text{ZnCl}_2$
13. $\text{BaCO}_3 + \text{C} + \text{H}_2\text{O} \rightarrow \text{CO} + \text{Ba}(\text{OH})_2$
14. $\text{RbCl} + \text{O}_2 \rightarrow \text{RbClO}_4$
15. $\text{SiF}_4 + \text{H}_2\text{O} \rightarrow \text{H}_2\text{SiF}_6 + \text{H}_2\text{SiO}_3$
16. $\text{CH}_4 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
17. $\text{Fe}_2\text{O}_3 + \text{Al} \rightarrow \text{Al}_2\text{O}_3 + \text{Fe}$
18. $\text{MnO}_2 + \text{H}_2\text{SO}_4 + \text{H}_2\text{C}_2\text{O}_4 \rightarrow \text{MnSO}_4 + \text{CO}_2 + \text{H}_2\text{O}$
19. $(\text{NH}_4)_2\text{CO}_3 \rightarrow \text{NH}_3 + \text{CO}_2 + \text{H}_2\text{O}$
20. $\text{Fe}_2(\text{SO}_4)_3 + \text{K}(\text{SCN}) \rightarrow \text{K}_3\text{Fe}(\text{SCN})_6 + \text{K}_2\text{SO}_4$