Balancing Chemical Equations

Name _____ Period _____ Date _____

Write complete balanced equations for each of the following reactions.

1. ____ N_2 + ____ H_2 → ____ NH_3
2. ____ $KClO_3$ → ____ KCl + ____ O_2
3. ____ NaCl + ____ F_2 → ____ NaF + ____ Cl_2
4. ____ H_2 + ____ O_2 → ____ H_2O
5. ____ $Pb(OH)_2$ + ____ HCl → ____ H_2O + ____ $PbCl_2$
6. ____ $AlBr_3$ + ____ K_2SO_4 → ____ KBr + ____ $Al_2(SO_4)_3$
7. ____ CH_4 + ____ O_2 → ____ CO_2 + ____ H_2O
8. ____ C_3H_8 + ____ O_2 → ____ CO_2 + ____ H_2O
9. ____ C_8H_{18} + ____ O_2 → ____ CO_2 + ____ H_2O
10. ____ $FeCl_3$ + ____ NaOH → ____ $Fe(OH)_3$ + ____ NaCl
11. ____ P + ____ O_2 → ____ P_2O_5
12. ____ Na + ____ H_2O → ____ NaOH + ____ H_2
13. ____ Ag_2O → ____ Ag + ____ O_2
14. ____ S_8 + ____ O_2 → ____ SO_3
15. ____ CO_2 + ____ H_2O → ____ $C_6H_{12}O_6$ + ____ O_2
16. ____ K + ____ $MgBr_2$ → ____ KBr + ____ Mg
17. ____ HCl + ____ $CaCO_3$ → ____ $CaCl_2$ + ____H_2O + ____ CO_2
18. ____ HNO_3 + ____ $NaHCO_3$ → ____ $NaNO_3$ + ____ H_2O + ____ CO_2
19. ____ H_2O + ____ O_2 → ____ H_2O_2
20. ____ NaBr + ____ CaF_2 → ____NaF + ____ $CaBr_2$
21. ____ H_2SO_4 + ____ $NaNO_2$ → ____ HNO_2 + ____ Na_2SO_4