Name:_____

Period:_____

## Word Equations

*Write the word reactions below as chemical equations and balance:*

1. Potassium metal and chlorine gas combine to form potassium chloride.

2. Barium metal and oxygen gas react to form barium oxide.

3. Calcium metal and nitrogen gas react to form calcium nitride.

4. Aluminum reacts with sulfur ($S_8$) to form aluminum sulfide

5. When crystalline $C_6H_{12}O_6$ is burned in oxygen, carbon dioxide and water vapor are formed.

6. Propane ($C_3H_8$) is burned in oxygen gas. (What are the products?)

7. Write the balanced chemical equation for the combustion of sucrose, $C_{12}H_{22}O_{11}$

*Balance the equations below:*

8. ____ $N_2$ + ____ $H_2$ → ____ $NH_3$

9. ____ $KClO_3$ → ____ KCl + ____ $O_2$

10. ____ NaCl + ____ $F_2$ → ____ NaF + ____ $Cl_2$

11. ____ $H_2$ + ____ $O_2$ → ____ $H_2O$

12. ____ $Pb(OH)_2$ + ____ HCl → ____ $H_2O$ + ____ $PbCl_2$

13. ____ $CH_4$ + ____ $O_2$ → ____ $CO_2$ + ____ $H_2O$

14. ____ $C_3H_8$ + ____ $O_2$ → ____ $CO_2$ + ____ $H_2O$

15. ____ $FeCl_3$ + ____ NaOH → ____ $Fe(OH)_3$ + ____NaCl

16. ____ P + ____$O_2$ → ____$P_2O_5$

17. ____ Na + ____ $H_2O$ → ____ NaOH + ____$H_2$

18. ____ $Ag_2O$ → ____ Ag + ____$O_2$

19. ____ $S_8$ + ____$O_2$ → ____ $SO_3$

20. ____ $CO_2$ + ____ $H_2O$ → ____ $C_6H_{12}O_6$ + ____$O_2$

21. ____ K + ____ MgBr → ____ KBr + ____ Mg

22. ____ $H_2O$ + ____ $O_2$ → ____ $H_2O_2$

23. ____ NaBr + ____ $CaF_2$ → ____ NaF + ____ $CaBr_2$