

Name: _____

Date: _____

Balancing Equations

Balance the following chemical equations.

1. _____ $\text{SiCl}_4(\text{l})$ + _____ $\text{H}_2\text{O}(\text{l})$ \longrightarrow _____ $\text{SiO}_2(\text{s})$ + _____ $\text{HCl}(\text{aq})$
2. _____ As + _____ NaOH \longrightarrow _____ Na_3AsO_3 + _____ H_2
3. _____ Au_2S_3 + _____ H_2 \longrightarrow _____ Au + _____ H_2S
4. _____ V_2O_5 + _____ HCl \longrightarrow _____ VOCl_3 + _____ H_2O
5. _____ $\text{Hg}(\text{OH})_2$ + _____ H_3PO_4 \longrightarrow _____ $\text{Hg}_3(\text{PO}_4)_2$ + _____ H_2O
6. _____ SiO_2 + _____ HF \longrightarrow _____ SiF_4 + _____ H_2O
7. _____ Zn + _____ HCl \longrightarrow _____ ZnCl_2 + _____ H_2
8. _____ HClO_4 + _____ P_4O_{10} \longrightarrow _____ H_3PO_4 + _____ Cl_2O_7
9. _____ $\text{N}_2(\text{g})$ + _____ $\text{O}_2(\text{g})$ + _____ H_2O \longrightarrow _____ $\text{HNO}_3(\text{aq})$
10. _____ NH_4NO_3 \longrightarrow _____ N_2 + _____ O_2 + _____ H_2O