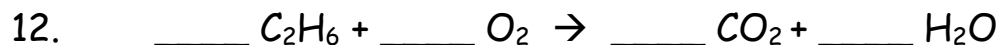
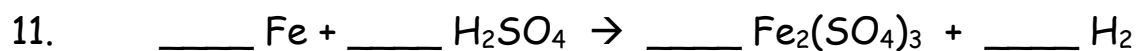
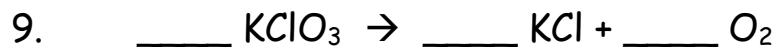
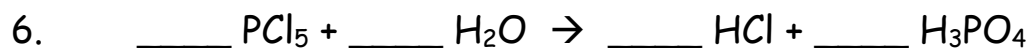
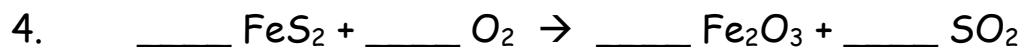
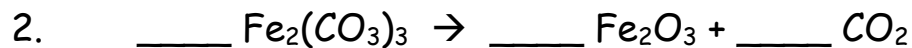
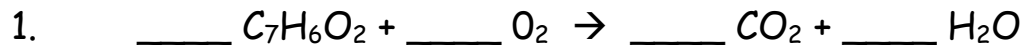


## BALANCING CHEMICAL EQUATIONS - HONORS

Name: \_\_\_\_\_

Balance the following chemical equations. Reduce/simplify if necessary.



13.  $\underline{\hspace{1cm}} \text{KOH} + \underline{\hspace{1cm}} \text{H}_3\text{PO}_4 \rightarrow \underline{\hspace{1cm}} \text{K}_3\text{PO}_4 + \underline{\hspace{1cm}} \text{H}_2\text{O}$
14.  $\underline{\hspace{1cm}} \text{Al}(\text{OH})_3 + \underline{\hspace{1cm}} \text{H}_2\text{SO}_4 \rightarrow \underline{\hspace{1cm}} \text{Al}_2(\text{SO}_4)_3 + \underline{\hspace{1cm}} \text{H}_2\text{O}$
15.  $\underline{\hspace{1cm}} \text{Al} + \underline{\hspace{1cm}} \text{O}_2 \rightarrow \underline{\hspace{1cm}} \text{Al}_2\text{O}_3$
16.  $\underline{\hspace{1cm}} \text{KNO}_3 + \underline{\hspace{1cm}} \text{H}_2\text{CO}_3 \rightarrow \underline{\hspace{1cm}} \text{K}_2\text{CO}_3 + \underline{\hspace{1cm}} \text{HNO}_3$
17.  $\underline{\hspace{1cm}} \text{Zn} + \underline{\hspace{1cm}} \text{HF} \rightarrow \underline{\hspace{1cm}} \text{ZnF}_2 + \underline{\hspace{1cm}} \text{H}_2$
18.  $\underline{\hspace{1cm}} \text{AlF}_3 + \underline{\hspace{1cm}} \text{Li}_2\text{SO}_3 \rightarrow \underline{\hspace{1cm}} \text{Al}_2(\text{SO}_3)_3 + \underline{\hspace{1cm}} \text{LiF}$
19.  $\underline{\hspace{1cm}} (\text{NH}_4)_3\text{PO}_4 + \underline{\hspace{1cm}} \text{Pb}(\text{NO}_3)_4 \rightarrow \underline{\hspace{1cm}} \text{Pb}_3(\text{PO}_4)_4 + \underline{\hspace{1cm}} \text{NH}_4\text{NO}_3$
20.  $\underline{\hspace{1cm}} \text{Ca}_3(\text{PO}_4)_2 + \underline{\hspace{1cm}} \text{SiO}_2 \rightarrow \underline{\hspace{1cm}} \text{P}_4\text{O}_{10} + \underline{\hspace{1cm}} \text{CaSiO}_3$
21.  $\underline{\hspace{1cm}} \text{C}_8\text{H}_{18} + \underline{\hspace{1cm}} \text{O}_2 \rightarrow \underline{\hspace{1cm}} \text{CO}_2 + \underline{\hspace{1cm}} \text{H}_2\text{O}$
22.  $\underline{\hspace{1cm}} \text{Fe}_2\text{O}_3 + \underline{\hspace{1cm}} \text{CO}_2 \rightarrow \underline{\hspace{1cm}} \text{Fe}_2(\text{CO}_3)_3$
23.  $\underline{\hspace{1cm}} \text{Ca}_3(\text{PO}_4)_2 + \underline{\hspace{1cm}} \text{H}_2\text{SO}_4 \rightarrow \underline{\hspace{1cm}} \text{CaSO}_4 + \underline{\hspace{1cm}} \text{Ca}(\text{H}_2\text{PO}_4)_2$
24.  $\underline{\hspace{1cm}} \text{Al} + \underline{\hspace{1cm}} \text{HCl} \rightarrow \underline{\hspace{1cm}} \text{AlCl}_3 + \underline{\hspace{1cm}} \text{H}_2$
25.  $\underline{\hspace{1cm}} \text{FeS} + \underline{\hspace{1cm}} \text{HCl} \rightarrow \underline{\hspace{1cm}} \text{FeCl}_2 + \underline{\hspace{1cm}} \text{H}_2\text{S}$