



## PRACTICE

Balance the following equations using the appropriate coefficients. Remember that balancing one element may temporarily unbalance another. You will have to correct the imbalance in the final equation. Check your work by counting the total number of atoms of each element—the numbers should be equal on the reactant and product sides of the equation. Remember, the equations **cannot** be balanced by changing subscript numbers!

1.  $\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3$
2.  $\text{CO} + \text{H}_2 \rightarrow \text{H}_2\text{O} + \text{CH}_4$
3.  $\text{HgO} \rightarrow \text{Hg} + \text{O}_2$
4.  $\text{CaCO}_3 \rightarrow \text{CaO} + \text{CO}_2$
5.  $\text{C} + \text{Fe}_2\text{O}_3 \rightarrow \text{Fe} + \text{CO}_2$
6.  $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$
7.  $\text{K} + \text{H}_2\text{O} \rightarrow \text{KOH} + \text{H}_2$
8.  $\text{P} + \text{O}_2 \rightarrow \text{P}_2\text{O}_5$
9.  $\text{Ba(OH)}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{H}_2\text{O} + \text{BaSO}_4$
10.  $\text{CaF}_2 + \text{H}_2\text{SO}_4 \rightarrow \text{CaSO}_4 + \text{HF}$
11.  $\text{KClO}_3 \rightarrow \text{KClO}_4 + \text{KCl}$

