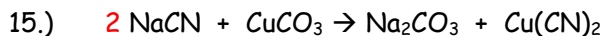
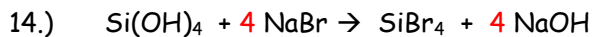
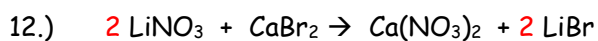
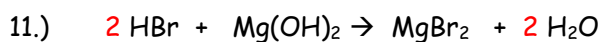
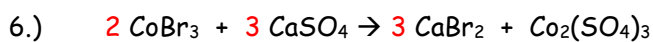
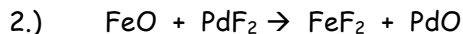


More Balancing Equations

Name - \_\_\_\_\_

*Balance these equations!*

**Note** - Whenever balancing an equation, it is acceptable to leave spaces blank instead of writing "1" - in chemistry, they mean the same thing.



Review and Practice

---

1.)

- a.) Oxygen gas and carbon
- b.) Ignore
- c.) D

- d.)  $C + O_2 \rightarrow CO_2$
- e.) Balanced

2.)

- a.)  $2 K + Cl_2 \rightarrow 2 KCl$
- b.)  $2 K + Br_2 \rightarrow 2 KBr$
- c.)  $2 K + F_2 \rightarrow 2 KF$
- d.)  $4 K + O_2 \rightarrow 2 K_2O$
- e.)  $4 Na + O_2 \rightarrow 2 Na_2O$
- f.)  $6 Na + N_2 \rightarrow 2 Na_3N$
- g.)  $2 Ca + O_2 \rightarrow 2 CaO$
- h.)  $Ba + Br_2 \rightarrow BaBr_2$
- i.)  $3 Sr + N_2 \rightarrow Sr_3N_2$

3.)

- a.)  $2 K + 2 H_2O \rightarrow 2 KOH + H_2$
- b.)  $Ca + 2 H_2O \rightarrow Ca(OH)_2 + H_2$
- c.)  $3 Mg + N_2 \rightarrow Mg_3N_2$
- d.)  $Mg_3N_2 + 3 H_2O \rightarrow 3 MgO + 2 NH_3$
- e.)  $2 NH_4Cl + Ca(OH)_2 \rightarrow 2 NH_3 + 2 H_2O + CaCl_2$
- f.)  $(NH_4)_2SO_4 + 2 NaOH \rightarrow 2 NH_3 + 2 H_2O + Na_2SO_4$
- g.)  $4 FeS_2 + 11 O_2 \rightarrow 2 Fe_2O_3 + 8 SO_2$
- h.)  $2 MoS_2 + 7 O_2 \rightarrow 2 MoO_3 + 4 SO_2$
- i.)  $MoO_3 + 3 H_2 \rightarrow Mo + 3 H_2O$

4.)

- a.)  $Li + H_2O \rightarrow LiOH + H_2$
- b.)  $Ba + H_2O \rightarrow Ba(OH)_2 + H_2$
- c.)  $NH_4NO_3 + NaOH \rightarrow NH_3 + H_2O + NaNO_3$
- d.)  $2 Cu_2S + 3 O_2 \rightarrow 2 Cu_2O + 2 SO_2$
- e.)  $2 Al + 3 I_2 \rightarrow 2 AlI_3$

5.)

- a.)  $2 AgNO_3 + CuCl_2 \rightarrow 2 AgCl + Cu(NO_3)_2$
- b.)  $BaCl_2 + (NH_4)_2CO_3 \rightarrow BaCO_3 + 2 NH_4Cl$
- c.)  $Mg(ClO_3)_2 \rightarrow MgCl_2 + 3 O_2$
- d.)  $3 FeCl_2 + 2 Na_3PO_4 \rightarrow Fe_3(PO_4)_2 + 6 NaCl$
- e.)  $ZnO + 2 HCl \rightarrow ZnCl_2 + H_2O$
- f.)  $3 CuSO_4 + 2 Fe \rightarrow Fe_2(SO_4)_3 + 3 Cu$
- g.)  $Br_2 + 2 KI \rightarrow 2 KBr + I_2$
- h.)  $2 Al + 2 NaOH + 6 H_2O \rightarrow 2 NaAl(OH)_4 + 3 H_2$