

①

Balance the following equations!

a.	$2 \text{K}_{(s)} + \text{Cl}_{2(g)} \rightarrow 2 \text{KCl}_{(s)}$
b.	$2 \text{K}_{(s)} + \text{Br}_{2(g)} \rightarrow 2 \text{KBr}_{(s)}$
c.	$2 \text{K} + \text{F}_2 \rightarrow 2 \text{KF}$
d.	$4 \text{K} + \text{O}_2 \rightarrow 2 \text{K}_2\text{O}$
e.	$4 \text{Na} + \text{O}_2 \rightarrow 2 \text{Na}_2\text{O}$
f.	$6 \text{Na} + \text{N}_2 \rightarrow 2 \text{Na}_3\text{N}$
g.	$2 \text{Ca} + \text{O}_2 \rightarrow 2 \text{CaO}$
h.	$\text{Ba} + \text{Br}_2 \rightarrow \text{BaBr}_2$
i.	$3 \text{Sr} + \text{N}_2 \rightarrow \text{Sr}_3\text{N}_2$
j.	$2 \text{K} + 2 \text{H}_2\text{O} \rightarrow 2 \text{KOH} + \text{H}_2$
k.	$\text{Ca} + 2 \text{H}_2\text{O} \rightarrow \text{Ca}(\text{OH})_2 + \text{H}_2$
l.	$3 \text{Mg} + \text{N}_2 \rightarrow \text{Mg}_3\text{N}_2$
m.	$\text{Mg}_3\text{N}_2 + 3 \text{H}_2\text{O} \rightarrow 3 \text{MgO} + 2 \text{NH}_3$
n.	$2 \text{NH}_4\text{Cl} + \text{Ca}(\text{OH})_2 \rightarrow 2 \text{NH}_3 + 2 \text{H}_2\text{O} + \text{CaCl}_2$
o.	$(\text{NH}_4)_2\text{SO}_4 + 2 \text{NaOH} \rightarrow 2 \text{NH}_3 + 2 \text{H}_2\text{O} + \text{Na}_2\text{SO}_4$
p.	$4 \text{FeS}_2 + 11 \text{O}_2 \rightarrow 2 \text{Fe}_2\text{O}_3 + 8 \text{SO}_2$
q.	$2 \text{MoS}_2 + 7 \text{O}_2 \rightarrow 2 \text{MoO}_3 + 4 \text{SO}_2$
r.	$\text{MoO}_3 + 3 \text{H}_2 \rightarrow \text{Mo} + 3 \text{H}_2\text{O}$

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Balancing equations

Starting with the skeleton equations, balance the following equations by adding coefficients where appropriate. Rewrite the final balanced equation on the line.

