Balancing Act Answer Key:

Page 1 Problems

2 Ca + O$_2$ ➜ 2 CaO

N$_2$ + 3 H$_2$ ➜ 2 NH$_3$

2 Cu$_2$O + C ➜ 4 Cu + CO$_2$

2 H$_2$O$_2$ ➜ 2 H$_2$O + O$_2$ Hint: Add the O atoms on the product side together when doing the counts.
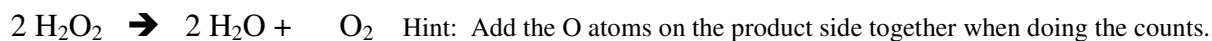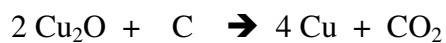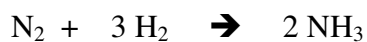
Page 2 Practice Problems

1. 2 Na + MgF$_2$ ➜ 2 NaF + Mg

2. Mg + 2 HCl ➜ MgCl$_2$ + H$_2$

3. Cl$_2$ + 2 KI ➜ 2 KCl + I$_2$

4. 2 NaCl ➜ 2 Na + Cl$_2$

5. 4 Na + O$_2$ ➜ 2 Na$_2$O

6. 2 Na + 2 HCl ➜ H$_2$ + 2 NaCl

7. 2 K + Cl$_2$ ➜ 2 KCl
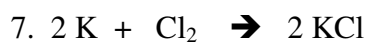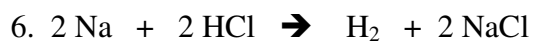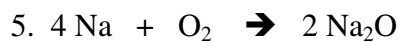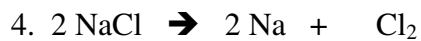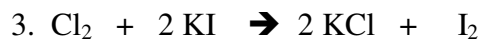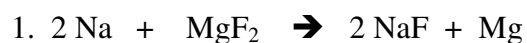
Challenge: This one is tough!

2 C$_2$H$_6$ + 7 O$_2$ ➜ 4 CO$_2$ + 6 H$_2$O