Name: _____ **Date:** _____

Balancing Equations

Balance the following chemical equations.

1. 1 CH_4 + 2 O_2 → 1 CO_2 + 2 H_2O

2. 2 Na^+ + 2 Cl^- → 1 NaCl

3. 4 Al + 3 O_2 → 2 Al_2O_3

4. 1 N_2^+ + 3 H_2 → 2 NH_3

5. 8 CO(g) + 17 H_2(g) → 1 C_8H_{18}(l) + 8 H_2O

6. 1 Fe_2O_3(s) + 3 CO(g) → 2 Fe(l) + 3 CO_2(g)

7. 2 H_2SO_4 + 1 $Pb(OH)_4$ → 1 $Pb(SO_4)_2$ + 4 H_2O

8. 2 Al + 6 HCl → 2 $AlCl_3$ + 3 H_2

9. 1 $Ca_3(PO_4)_2$ + 2 H_2SO_4 → 2 $CaSO_4$ + 1 $Ca(H_2PO_4)_2$

10. 1 H_3PO_4 + 5 HCl → 1 PCl_5 + 4 H_2O