Name:

Date:

Balancing Chemical Equations

Balance the following chemical equations.

1.
$$\underline{2}$$
 Fe + $\underline{3}$ H₂SO₄ \longrightarrow $\underline{1}$ Fe₂(SO₄)₃ + $\underline{3}$ H₂

2.
$$\underline{1}$$
 CH₄ + $\underline{2}$ O₂ \longrightarrow $\underline{1}$ CO₂ + $\underline{2}$ H₂O

3.
$$\underline{1}$$
 SiCl₄(ℓ) + $\underline{2}$ H₂O(ℓ) \longrightarrow $\underline{1}$ SiO₂(s) + $\underline{4}$ HCl(aq)

4.
$$\underline{2}$$
 AgI + $\underline{1}$ Na₂S \longrightarrow $\underline{1}$ Ag₂S + $\underline{2}$ NaI

5.
$$\underline{4}$$
 NH₃ + $\underline{5}$ O₂ \longrightarrow $\underline{4}$ NO + $\underline{6}$ H₂O

6.
$$\underline{1}$$
 FeO₃(s) + $\underline{3}$ CO(g) \longrightarrow $\underline{1}$ Fe(ℓ) + $\underline{3}$ CO₂(g)

7.
$$1$$
 SiO₂ + 4 HF \longrightarrow 1 SiF₄ + 2 H₂O

8.
$$2$$
 NaBr + 1 Cl₂ \longrightarrow 2 NaCl + 1 Br₂

9.
$$\underline{4}$$
 (NH₄)₃PO₄ + $\underline{3}$ Pb(NO₃)₄ \longrightarrow $\underline{1}$ Pb₃(PO₄)₄ + $\underline{12}$ NH₄NO₃

10.
$$\underline{1}$$
 Mg(OH)₂ + $\underline{2}$ HCl \longrightarrow $\underline{1}$ MgCl₂ + $\underline{2}$ H₂O