Name:

Date:

Balancing Chemical Equations

Balance the following chemical equations.

1. ___
$$V_2O_5$$
 + __ HCI \longrightarrow __ $VOCI_3$ + __ H_2O

CI
$$\longrightarrow$$

$$H_2O$$

2. ___
$$CH_4$$
 + ___ O_2 \longrightarrow ___ CO_2 + ___ H_2O

$$\rightarrow$$
 _

$$CO_2$$

$$F_2$$

3. ___
$$Xe + _{--} F_2 \longrightarrow _{--} XeF_6$$

$$H_2SO_2$$

4. ____
$$H_2SO_4 + _{--} Pb(OH)_4 \longrightarrow _{--} Pb(SO_4)_2 + _{--} H_2O$$

5. ____
$$PCI_5$$
 + ___ H_2O \longrightarrow ___ H_3PO_4 + ___

$$H_2O$$

$$H_3PO_4$$

$$H_2CO_3$$

6. ___ KNO₃ + ___ H₂CO₃
$$\longrightarrow$$
 ___ K₂CO₃ + ___ HNO₃

7. ___ BF₃ + ___ Li₂SO₃
$$\longrightarrow$$
 ___ B₂(SO₃)₃ + ___ LiF

$$\rightarrow$$

$$B_2(SO_3)_3$$

$$O_2(g)$$

$$H_2C$$

8. ____
$$N_2(g)$$
 + ____ $O_2(g)$ \longrightarrow ____ H_2O + ___ $HNO_3(aq)$

$$\rightarrow$$

9. ____
$$NH_4NO_3$$
 \longrightarrow ____ N_2 + ____ O_2 + ___ H_2O

$$O_2$$

$$Ca_3(PO_4)_2 +$$

10. ___
$$Ca_3(PO_4)_2 +$$
__ $H_2SO_4 \longrightarrow$ __ $CaSO_4 +$ __ $Ca(H_2PO_4)_2$