#### Balancing Chemical Equations Worksheet

1. 
$$2 H_2 + 0_2 \rightarrow 2 H_2O$$

2. 
$$N_2 + 3 H_2 \rightarrow 2 NH_3$$

4. 
$$2 N_2 + 0_2 \rightarrow 2 N_20$$

5. 
$$2 \text{ HgO} \rightarrow 2 \text{ Hg} + 0$$

6. 
$$6 CO_2 + 6 H_2O \rightarrow C_6H_{12}O_6 + 6 O_2$$

9. 
$$\underline{2}$$
 Na +  $\underline{2}$  H<sub>2</sub>O  $\Rightarrow$   $\underline{2}$  NaOH +  $\underline{\phantom{0}}$  H<sub>2</sub>

10. 
$$_{-2}$$
  $H_3PO_4 \rightarrow _{---}$   $H_4P_2O_7 + _{---}$   $H_2O$ 

12. \_\_\_\_ 
$$CO_2$$
 + \_\_\_  $Z$   $NH_3  $\rightarrow$  ____  $OC(NH_2)_2$  + ____  $H_2O$$ 

13. 
$$4 \text{ Si}_2\text{H}_3 + 7 \text{ O}_2 \rightarrow 8 \text{ SiO}_2 + 6 \text{ H}_2\text{O}_3$$

14. \_2\_Al(OH)<sub>3</sub> + \_3\_H<sub>2</sub>SO<sub>4</sub> 
$$\Rightarrow$$
 \_\_\_Al<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> + \_6\_H<sub>2</sub>O

16. \_\_\_\_ Fe<sub>2</sub>(SO<sub>4</sub>)<sub>3</sub> + \_\_\_6\_ KOH 
$$\rightarrow$$
 \_\_\_3\_ K<sub>2</sub>SO<sub>4</sub> + \_\_2\_ Fe(OH)<sub>3</sub>

17. 
$$2 C_7H_6O_2 + 15 O_2 \rightarrow 14 CO_2 + 5 H_2O$$

19. \_\_\_\_\_ FeS<sub>2</sub> + \_\_\_\_\_ O<sub>2</sub> 
$$\rightarrow$$
 \_\_\_\_\_ Fe<sub>2</sub>O<sub>3</sub> + \_\_\_\_\_ SO<sub>2</sub>

21. \_\_\_\_Fe<sub>2</sub>O<sub>3</sub> + \_\_3\_H<sub>2</sub> 
$$\rightarrow$$
 \_\_2\_Fe + \_\_3\_H<sub>2</sub>O

22. \_\_\_\_Na<sub>2</sub>CO<sub>3</sub> + \_\_\_ HCl 
$$\rightarrow$$
 \_\_ NaCl + \_\_\_\_H<sub>2</sub>O + \_\_\_\_CO<sub>2</sub>

24. \_\_\_\_ 
$$C_7H_{16} + _//_ O_2 \rightarrow _//_ CO_2 + _//__ H_{2}O$$

25. 
$$P_4 + 5 O_2 \rightarrow 7 P_2O_5$$

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**Peipei Pang** 

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