

BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 77

2.
$$2 \text{ CoBr}_3 + K_2 S = Co_2 S_3 + KBr$$

3.
$$PTCl_4 +$$
 $XEF_2 = PTF_6 +$ $ClF + 5 XE$

4.
$$CrCl_3 + 3 H_2O_2 + 10 NaOH = Na_2CrO_4 + 6 NaCl + 8 H_2O$$

5.
$$HCIO_4 + P_4O_{10} = H_3PO_4 + 6 Cl_2O_7$$

6.
$$2 \text{ GaBr}_3 + \underline{\hspace{1cm}} \text{Na}_2 \text{SO}_3 = \text{Ga}_2(\text{SO}_3)_3 + \underline{\hspace{1cm}} \text{NaBr}$$

9.
$$C_4H_8O + 11O_2 = 8CO_2 + H_2O$$

10.
$$P_4 + \underline{\hspace{1cm}} O_5 + 6 H_2 O = \underline{\hspace{1cm}} H_3 P O_4$$

11.
$$Pb(OH)_4 + \underline{\hspace{1cm}} Cu_2O = PbO_2 + \underline{\hspace{1cm}} CuOH$$

12.
$$Fe_2O_3 +$$
 CO = 2 $Fe +$ CO₂

13. ____
$$H_2(g) + P_4(s) =$$
 ____ $PH_3(g)$

14. ____ LiOH +
$$H_3PO_4 = Li_3PO_4 + ___ H_2O$$

16. ____
$$NH_3 + 5 O_2 = 4 NO + ___ H_2O$$

17. 2
$$K_3PO_4 +$$
 Ba $(NO_3)_2 =$ KNO₃ + Ba $_3(PO_4)_2$

18. ____ KI + 8 HNO₃ = ____
$$I_2$$
 + 6 KNO₃ + 2 NO + 4 H_2 O

19. 2
$$CH_3CH_3 + O_2 = 4 CO_2 + H_2O$$

20.
$$CaC_2 + 2 Na_3P = Ca_3P_2 + C_2Na_2$$

ANSWERS

1.
$$3 Ca(NO_3)_2 + 2 K_3PO_4 = Ca_3(PO_4)_2 + 6 KNO_3$$

2.
$$2 \text{ CoBr}_3 + 3 \text{ K}_2\text{S} = \text{Co}_2\text{S}_3 + 6 \text{ KBr}$$

3.
$$PTCl_4 + 5 XEF_2 = PTF_6 + 4 CIF + 5 XE$$

4.
$$2 \text{ CrCl}_3 + 3 \text{ H}_2\text{O}_2 + 10 \text{ NaOH} = 2 \text{ Na}_2\text{CrO}_4 + 6 \text{ NaCl} + 8 \text{ H}_2\text{O}$$

5. 12
$$HClO_4 + P_4O_{10} = 4 H_3PO_4 + 6 Cl_2O_7$$

6.
$$2 \text{ GaBr}_3 + 3 \text{ Na}_2 \text{SO}_3 = \text{Ga}_2 (\text{SO}_3)_3 + 6 \text{ NaBr}$$

7.
$$3 \text{ AgNO}_3 + \text{AlI}_3 = 3 \text{ AgI} + \text{Al(NO}_3)_3$$

8.
$$2 \text{ KCLO}_3(s) = 2 \text{ KCL}(s) + 3 \text{ O}_2(g)$$

9.
$$2 C_4H_8O + 11 O_2 = 8 CO_2 + 8 H_2O$$

10.
$$P_4 + 2 O_5 + 6 H_2O = 4 H_3PO_4$$

11.
$$Pb(OH)_4 + 2 Cu_2O = PbO_2 + 4 CuOH$$

12.
$$Fe_2O_3 + 3 CO = 2 Fe + 3 CO_2$$

13.
$$6 H_2(g) + P_4(s) = 4 PH_3(g)$$

14.
$$3 \text{ LiOH} + \text{H}_3\text{PO}_4 = \text{Li}_3\text{PO}_4 + 3 \text{ H}_2\text{O}$$

16.
$$4 \text{ NH}_3 + 5 \text{ O}_2 = 4 \text{ NO} + 6 \text{ H}_2\text{O}$$

17. 2
$$K_3PO_4 + 3 Ba(NO_3)_2 = 6 KNO_3 + Ba_3(PO_4)_2$$

18. 6 KI + 8 HNO₃ = 3
$$I_2$$
 + 6 KNO₃ + 2 NO + 4 H_2 O

19.
$$2 CH_3CH_3 + 7 O_2 = 4 CO_2 + 6 H_2O$$

20.
$$3 CaC_2 + 2 Na_3P = Ca_3P_2 + 3 C_2Na_2$$



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