



## BALANCE THE GIVEN CHEMICAL EQUATIONS

### Worksheet - 8

- $C_5H_{12} + 8 O_2 = \underline{\hspace{1cm}} CO_2 + 6 H_2O$
- $4 KClO_3 = KCl + \underline{\hspace{1cm}} KClO_4$
- $Cu(NO_3)_2 + H_2SO_4 = CuSO_4 + \underline{\hspace{1cm}} HNO_3$
- $C_2H_4 + \underline{\hspace{1cm}} O_2 = 2 CO_2 + 2 H_2O$
- $C_3H_8 + \underline{\hspace{1cm}} O_2 = 3 CO_2 + \underline{\hspace{1cm}} H_2O$
- $2 Mg + \underline{\hspace{1cm}} H_2O = \underline{\hspace{1cm}} MgOH + H_2$
- $3 Cu + \underline{\hspace{1cm}} HNO_3 = 3 Cu(NO_3)_2 + \underline{\hspace{1cm}} NO + 4 H_2O$
- $2 KMnO_4 + \underline{\hspace{1cm}} Na_2SO_3 + H_2O = \underline{\hspace{1cm}} MnO_2 + 3 Na_2SO_4 + 2 KOH$
- $3 NaOH + H_3PO_4 = Na_3PO_4 + \underline{\hspace{1cm}} H_2O$
- $\underline{\hspace{1cm}} Al + 3 F_2 = 2 AlF_3$
- $C + CO_2 = \underline{\hspace{1cm}} CO$
- $Cu_2O + Zn = \underline{\hspace{1cm}} Cu + ZnO$
- $4 FeS + 7 O_2 = \underline{\hspace{1cm}} Fe_2O_3 + 4 SO_2$
- $C_{18}H_{30}SO_{13} + NH_3CO_2 + Na_2CO_3 = C_{18}H_{30}SO_9 + \underline{\hspace{1cm}} NaHCO_3 + HNO_3$
- $2 HCl + K_2CO_3 = CO_2 + H_2O + \underline{\hspace{1cm}} KCl$
- $\underline{\hspace{1cm}} HCl + MnO_2 = MnCl_2 + 2 H_2O + Cl_2$
- $2 Na + \underline{\hspace{1cm}} H_2O = 2 NaOH + H_2$
- $Ca + \underline{\hspace{1cm}} H_2O = Ca(OH)_2 + H_2$
- $H_2SO_4 + \underline{\hspace{1cm}} NaOH = Na_2SO_4 + 2 H_2O$
- $4 FeS + \underline{\hspace{1cm}} O_2 = 2 Fe_2O_3 + 4 SO_2$



# ANSWERS

1.  $C_5H_{12} + 8 O_2 = 5 CO_2 + 6 H_2O$
2.  $4 KClO_3 = KCl + 3 KClO_4$
3.  $Cu(NO_3)_2 + H_2SO_4 = CuSO_4 + 2 HNO_3$
4.  $C_2H_4 + 3 O_2 = 2 CO_2 + 2 H_2O$
5.  $C_3H_8 + 5 O_2 = 3 CO_2 + 4 H_2O$
6.  $2 Mg + 2 H_2O = 2 MgOH + H_2$
7.  $3 Cu + 8 HNO_3 = 3 Cu(NO_3)_2 + 2 NO + 4 H_2O$
8.  $2 KMnO_4 + 3 Na_2SO_3 + H_2O = 2 MnO_2 + 3 Na_2SO_4 + 2 KOH$
9.  $3 NaOH + H_3PO_4 = Na_3PO_4 + 3 H_2O$
10.  $2 Al + 3 F_2 = 2 AlF_3$
11.  $C + CO_2 = 2 CO$
12.  $Cu_2O + Zn = 2 Cu + ZnO$
13.  $4 FeS + 7 O_2 = 2 Fe_2O_3 + 4 SO_2$
14.  $C_{18}H_{30}SO_{13} + NH_3CO_2 + Na_2CO_3 = C_{18}H_{30}SO_9 + 2 NaHCO_3 + HNO_3$
15.  $2 HCl + K_2CO_3 = CO_2 + H_2O + 2 KCl$
16.  $4 HCl + MnO_2 = MnCl_2 + 2 H_2O + Cl_2$
17.  $2 Na + 2 H_2O = 2 NaOH + H_2$
18.  $Ca + 2 H_2O = Ca(OH)_2 + H_2$
19.  $H_2SO_4 + 2 NaOH = Na_2SO_4 + 2 H_2O$
20.  $4 FeS + 7 O_2 = 2 Fe_2O_3 + 4 SO_2$



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