



## BALANCE THE GIVEN CHEMICAL EQUATIONS

### Worksheet - 44

- $\text{Cr}_2\text{O}_3 + \text{NaCO}_3 + \text{KNO}_3 = \text{Na}_2\text{CrO}_4 + 4 \text{CO}_2 + \text{KNO}_2$
- $2 \text{Sb} + \text{Cl}_2 = \text{SbCl}_3$
- $2 \text{CH}_3\text{CH}_3 + \text{O}_2 = \text{CO}_2 + 6 \text{H}_2\text{O}$
- $\text{O}_2 + \text{CsBr} = \text{CsO} + 2 \text{Br}$
- $\text{H}_2\text{SO}_4 + \text{NH}_4\text{OH} = (\text{NH}_4)_2\text{SO}_4 + \text{H}_2\text{O}$
- $\text{Ca}(\text{OH})_2 + \text{Co}_2(\text{SO}_4)_3 = \text{CaSO}_4 + 2 \text{Co}(\text{OH})_3$
- $\text{Si}_2\text{H}_3(\text{s}) + 11 \text{O}_2(\text{g}) = \text{SiO}_2(\text{s}) + 6 \text{H}_2\text{O}$
- $\text{Cr} + 3 \text{O}_2 = \text{Cr}_2\text{O}_3$
- $3 \text{Cl}_2 + \text{HNO}_3 = 10 \text{NO} + \text{HClO}_3 + 2 \text{H}_2\text{O}$
- $80 \text{CO}_2 + \text{H}_2\text{O} = \text{C}_8\text{H}_{18} + 80 \text{O}_2$
- $\text{Fe} + \text{K}_2\text{Cr}_2\text{O}_7 + 14 \text{HCl} = \text{FeCl}_3 + 2 \text{CrCl}_3 + 2 \text{KCl} + 7 \text{H}_2\text{O}$
- $\text{Fe} + \text{HCl} = \text{FeCl}_2 + \text{H}_2$
- $\text{H}_2 + \text{N}_2 = \text{NH}_3$
- $\text{H}_2\text{S} + \text{O}_2 = \text{H}_2\text{O} + \text{S}_2$
- $\text{NaCN} + \text{CuCO}_3 = \text{Na}_2\text{CO}_3 + \text{Cu}(\text{CN})_2$
- $6 \text{CO}_2 + \text{H}_2\text{O} = \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$
- $\text{Fe}(\text{OH})_2 + \text{O}_2 = \text{Fe}_2\text{O}_3 + 4 \text{H}_2\text{O}$
- $\text{Mg} + \text{O}_2 = \text{MgO}$
- $\text{Fe}_2\text{O}_3 + \text{HCl} = 2 \text{FeCl}_3 + \text{H}_2\text{O}$
- $\text{Mg}(\text{OH})_2 + \text{HClO}_4 = \text{Mg}(\text{ClO}_4)_2 + \text{H}_2\text{O}$



# ANSWERS

1.  $\text{Cr}_2\text{O}_3 + 4 \text{NaCO}_3 + \text{KNO}_3 = 2 \text{Na}_2\text{CrO}_4 + 4 \text{CO}_2 + \text{KNO}_2$
2.  $2 \text{Sb} + 3 \text{Cl}_2 = 2 \text{SbCl}_3$
3.  $2 \text{CH}_3\text{CH}_3 + 7 \text{O}_2 = 4 \text{CO}_2 + 6 \text{H}_2\text{O}$
4.  $\text{O}_2 + 2 \text{CsBr} = 2 \text{CsO} + 2 \text{Br}$
5.  $\text{H}_2\text{SO}_4 + 2 \text{NH}_4\text{OH} = (\text{NH}_4)_2\text{SO}_4 + 2 \text{H}_2\text{O}$
6.  $3 \text{Ca}(\text{OH})_2 + \text{Co}_2(\text{SO}_4)_3 = 3 \text{CaSO}_4 + 2 \text{Co}(\text{OH})_3$
7.  $4 \text{Si}_2\text{H}_3(\text{s}) + 11 \text{O}_2(\text{g}) = 8 \text{SiO}_2(\text{s}) + 6 \text{H}_2\text{O}$
8.  $4 \text{Cr} + 3 \text{O}_2 = 2 \text{Cr}_2\text{O}_3$
9.  $3 \text{Cl}_2 + 10 \text{HNO}_3 = 10 \text{NO} + 6 \text{HClO}_3 + 2 \text{H}_2\text{O}$
10.  $80 \text{CO}_2 + 9 \text{H}_{20} = 10 \text{C}_8\text{H}_{18} + 80 \text{O}_2$
11.  $2 \text{Fe} + \text{K}_2\text{Cr}_2\text{O}_7 + 14 \text{HCl} = 2 \text{FeCl}_3 + 2 \text{CrCl}_3 + 2 \text{KCl} + 7 \text{H}_2\text{O}$
12.  $\text{Fe} + 2 \text{HCl} = \text{FeCl}_2 + \text{H}_2$
13.  $3 \text{H}_2 + \text{N}_2 = 2 \text{NH}_3$
14.  $2 \text{H}_2\text{S} + \text{O}_2 = 2 \text{H}_2\text{O} + \text{S}_2$
15.  $2 \text{NaCN} + \text{CuCO}_3 = \text{Na}_2\text{CO}_3 + \text{Cu}(\text{CN})_2$
16.  $6 \text{CO}_2 + 6 \text{H}_2\text{O} = \text{C}_6\text{H}_{12}\text{O}_6 + 6 \text{O}_2$
17.  $4 \text{Fe}(\text{OH})_2 + \text{O}_2 = 2 \text{Fe}_2\text{O}_3 + 4 \text{H}_2\text{O}$
18.  $2 \text{Mg} + \text{O}_2 = 2 \text{MgO}$
19.  $\text{Fe}_2\text{O}_3 + 6 \text{HCl} = 2 \text{FeCl}_3 + 3 \text{H}_2\text{O}$
20.  $\text{Mg}(\text{OH})_2 + 2 \text{HClO}_4 = \text{Mg}(\text{ClO}_4)_2 + 2 \text{H}_2\text{O}$



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