



## BALANCE THE GIVEN CHEMICAL EQUATIONS

### Worksheet - 71

1.  $\text{C}_{10}\text{H}_{22} + 21 \text{O}_2 = \text{CO} + 22 \text{H}_2\text{O}$
2.  $5 \text{C} + \text{HNO}_3 = 2 \text{N}_2 + \text{CO}_2 + 2 \text{H}_2\text{O}$
3.  $(\text{NH}_4)_3\text{PO}_4 + 3 \text{Pb}(\text{NO}_3)_4 = \text{Pb}_3(\text{PO}_4)_4 + \text{NH}_4\text{NO}_3$
4.  $6 \text{CuI} + \text{HNO}_3 = 6 \text{Cu}(\text{NO}_3)_2 + \text{I}_2 + 4 \text{NO} + 8 \text{H}_2\text{O}$
5.  $\text{KClO}_3 = 2 \text{KCl} + \text{O}_2$
6.  $3 \text{SnCl}_2 + \text{HNO}_3 + 6 \text{HCl} = \text{SnCl}_4 + 2 \text{NO} + 4 \text{H}_2\text{O}$
7.  $\text{Zn} + \text{NaOH} + 2 \text{H}_2\text{O} = \text{Na}_2\text{Zn}(\text{OH})_4 + \text{H}_2$
8.  $\text{Fe}_2\text{O}_3 + \text{Al} = \text{Fe} + \text{Al}_2\text{O}_3$
9.  $2 \text{AgNO}_3 + \text{NH}_4\text{OH} + \text{C}_2\text{H}_2 = \text{Ag}_2\text{C}_2 + \text{NH}_4\text{NO}_3 + 2 \text{H}_2\text{O}$
10.  $\text{S}_{14}\text{H}_{30} + \text{CuO} = 14 \text{SO}_2 + 15 \text{H}_2\text{O} + \text{Cu}$
11.  $\text{FeS} + 7 \text{O}_2 = 2 \text{Fe}_2\text{O}_3 + \text{SO}_2$
12.  $\text{CH}_3\text{NH}_2 + \text{H}_3\text{O} = \text{CH}_3\text{NH}_3 + \text{OH}$
13.  $4 \text{C}_5\text{H}_5 + \text{O}_2 = 20 \text{CO}_2 + \text{H}_2\text{O}$
14.  $\text{Ba}(\text{OH})_2 + 2 \text{H}_3\text{PO}_4 = \text{Ba}_3(\text{PO}_4)_2 + \text{H}_2\text{O}$
15.  $\text{H}_3\text{PO}_4 + 3 \text{Sr}(\text{OH})_2 = \text{H}_2\text{O} + \text{Sr}_3(\text{PO}_4)_2$
16.  $2 \text{Al} + \text{HCl} = 2 \text{AlCl}_3 + \text{H}_2$
17.  $2 \text{NO}_2 + \text{H}_2 = 2 \text{NH}_3 + \text{H}_2\text{O}$
18.  $\text{NH}_3 + 5 \text{O}_2 = 4 \text{NO} + \text{H}_2\text{O}$
19.  $\text{BaO} + \text{As}_2\text{O}_5 = \text{Ba}_3(\text{AsO}_4)_2$
20.  $4 \text{C}_1\text{H}_5\text{O}_2 + \text{O}_2 = 4 \text{CO}_2 + \text{H}_2\text{O}$



# ANSWERS

1.  $2 \text{C}_{10}\text{H}_{22} + 21 \text{O}_2 = 20 \text{CO} + 22 \text{H}_2\text{O}$
2.  $5 \text{C} + 4 \text{HNO}_3 = 2 \text{N}_2 + 5 \text{CO}_2 + 2 \text{H}_2\text{O}$
3.  $4 (\text{NH}_4)_3\text{PO}_4 + 3 \text{Pb}(\text{NO}_3)_4 = \text{Pb}_3(\text{PO}_4)_4 + 12 \text{NH}_4\text{NO}_3$
4.  $6 \text{CuI} + 16 \text{HNO}_3 = 6 \text{Cu}(\text{NO}_3)_2 + 3 \text{I}_2 + 4 \text{NO} + 8 \text{H}_2\text{O}$
5.  $2 \text{KClO}_3 = 2 \text{KCl} + 3 \text{O}_2$
6.  $3 \text{SnCl}_2 + 2 \text{HNO}_3 + 6 \text{HCl} = 3 \text{SnCl}_4 + 2 \text{NO} + 4 \text{H}_2\text{O}$
7.  $\text{Zn} + 2 \text{NaOH} + 2 \text{H}_2\text{O} = \text{Na}_2\text{Zn}(\text{OH})_4 + \text{H}_2$
8.  $\text{Fe}_2\text{O}_3 + 2 \text{Al} = 2 \text{Fe} + \text{Al}_2\text{O}_3$
9.  $2 \text{AgNO}_3 + 2 \text{NH}_4\text{OH} + \text{C}_2\text{H}_2 = \text{Ag}_2\text{C}_2 + 2 \text{NH}_4\text{NO}_3 + 2 \text{H}_2\text{O}$
10.  $\text{S}_{14}\text{H}_{30} + 43 \text{CuO} = 14 \text{SO}_2 + 15 \text{H}_2\text{O} + 43 \text{Cu}$
11.  $4 \text{FeS} + 7 \text{O}_2 = 2 \text{Fe}_2\text{O}_3 + 4 \text{SO}_2$
12.  $2 \text{CH}_3\text{NH}_2 + \text{H}_3\text{O} = 2 \text{CH}_3\text{NH}_3 + \text{OH}$
13.  $4 \text{C}_5\text{H}_5 + 25 \text{O}_2 = 20 \text{CO}_2 + 10 \text{H}_2\text{O}$
14.  $3 \text{Ba}(\text{OH})_2 + 2 \text{H}_3\text{PO}_4 = \text{Ba}_3(\text{PO}_4)_2 + 6 \text{H}_2\text{O}$
15.  $2 \text{H}_3\text{PO}_4 + 3 \text{Sr}(\text{OH})_2 = 6 \text{H}_2\text{O} + \text{Sr}_3(\text{PO}_4)_2$
16.  $2 \text{Al} + 6 \text{HCl} = 2 \text{AlCl}_3 + 3 \text{H}_2$
17.  $2 \text{NO}_2 + 7 \text{H}_2 = 2 \text{NH}_3 + 4 \text{H}_2\text{O}$
18.  $4 \text{NH}_3 + 5 \text{O}_2 = 4 \text{NO} + 6 \text{H}_2\text{O}$
19.  $3 \text{BaO} + \text{As}_2\text{O}_5 = \text{Ba}_3(\text{AsO}_4)_2$
20.  $4 \text{C}_1\text{H}_5\text{O}_2 + 5 \text{O}_2 = 4 \text{CO}_2 + 10 \text{H}_2\text{O}$



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