



BALANCE THE GIVEN CHEMICAL EQUATIONS

Worksheet - 29

- $2 \text{KClO}_3 + \text{MnO}_2 = 5 \text{O}_2 + \text{MnCl}_2$
- $\text{CoCl}_2 + 3 \text{Ba(OH)}_2 = \text{BaCl}_2 + 2 \text{Co(OH)}_3$
- $10 \text{HSiCl}_3 + \text{H}_2\text{O} = \text{H}_{10}\text{Si}_{10}\text{O}_{15} + 30 \text{HCl}$
- $\text{Li} + 2 \text{H}_2\text{O} = \text{LiOH} + \text{H}_2$
- $\text{FeF}_2 + \text{Na}_2\text{CO}_3 + \text{H}_2\text{O} = \text{FeCO}_3 + 4\text{H}_2\text{O} + 2 \text{NaF}$
- $\text{P}_4\text{O}_{10} + \text{H}_2\text{O} = 4 \text{H}_3\text{PO}_4$
- $\text{CaC}_2 + \text{H}_2\text{O} = \text{Ca(OH)}_2 + \text{C}_2\text{H}_2$
- $3 \text{H}_2\text{O} + 30 \text{CO}_2 = \text{C}_6\text{H}_{12}\text{O}_6 + 15 \text{O}_2$
- $2 \text{Au(ClO}_3)_3 + \text{K}_2\text{CO}_3 = \text{Au}_2(\text{CO}_3)_3 + \text{KClO}_3$
- $2 \text{AlCl}_3 + \text{CNa}_2\text{O}_3 = \text{C}_3\text{Al}_2\text{O}_9 + \text{NaCl}$
- $\text{Al}_4\text{C}_3 + \text{H}_2\text{O} = \text{CH}_4 + 4 \text{Al(OH)}_3$
- $2 \text{KMnO}_4 + \text{KNO}_2 + 6 \text{HCl} = 2 \text{MnCl}_2 + 2 \text{KCl} + 5 \text{KNO}_3 + \text{H}_2\text{O}$
- $2 \text{Fe(OH)}_3(\text{s}) + \text{H}_2\text{SO}_4(\text{aq}) = \text{Fe}_2(\text{SO}_4)_3(\text{aq}) + \text{H}_2\text{O}(\text{l})$
- $\text{Sb}_2\text{O}_3 + \text{C} = \text{Sb} + 3 \text{CO}$
- $2 \text{H}_3\text{BO}_3(\text{s}) = \text{B}_2\text{O}_3(\text{s}) + \text{H}_2\text{O}(\text{l})$
- $\text{Sn} + \text{NaOH} = \text{Na}_2\text{SnO}_2 + \text{H}_2$
- $2 \text{LiOH} + \text{H}_2\text{SO}_4 = \text{Li}_2\text{SO}_4 + \text{H}_2\text{O}$
- $2 \text{HgO} = \text{Hg} + \text{O}_2$
- $\text{NaAl}(\text{CO}_3)(\text{OH})_2(\text{s}) + \text{HCl}(\text{aq}) = \text{NaCl}(\text{aq}) + \text{AlCl}_3(\text{aq}) + \text{CO}_2(\text{g}) + \text{H}_2\text{O}(\text{l})$
- $\text{Pb}(\text{NO}_3)_2 + \text{KI} = \text{PbI}_2 + \text{KNO}_3$



ANSWERS

1. $2 \text{KClO}_3 + 2 \text{MnO}_2 = 5 \text{O}_2 + 2 \text{MnClK}$
2. $2 \text{CoCl}_3 + 3 \text{Ba(OH)}_2 = 3 \text{BaCl}_2 + 2 \text{Co(OH)}_3$
3. $10 \text{HSiCl}_3 + 15 \text{H}_2\text{O} = \text{H}_{10}\text{Si}_{10}\text{O}_{15} + 30 \text{HCl}$
4. $2 \text{Li} + 2 \text{H}_2\text{O} = 2 \text{LiOH} + \text{H}_2$
5. $\text{FeF}_2 + \text{Na}_2\text{CO}_3 + 4 \text{H}_2\text{O} = \text{FeCO}_3 \cdot 4\text{H}_2\text{O} + 2 \text{NaF}$
6. $\text{P}_4\text{O}_{10} + 6 \text{H}_2\text{O} = 4 \text{H}_3\text{PO}_4$
7. $\text{CaC}_2 + 2 \text{H}_2\text{O} = \text{Ca(OH)}_2 + \text{C}_2\text{H}_2$
8. $3 \text{H}_2\text{O} + 30 \text{CO}_2 = 5 \text{C}_6\text{H}_{12}\text{O}_6 + 15 \text{O}_2$
9. $2 \text{Au(ClO}_3)_3 + 3 \text{K}_2\text{CO}_3 = \text{Au}_2(\text{CO}_3)_3 + 6 \text{KClO}_3$
10. $2 \text{AlCl}_3 + 3 \text{CNa}_2\text{O}_3 = \text{C}_3\text{Al}_2\text{O}_9 + 6 \text{NaCl}$
11. $\text{Al}_4\text{C}_3 + 12 \text{H}_2\text{O} = 3 \text{CH}_4 + 4 \text{Al(OH)}_3$
12. $2 \text{KMnO}_4 + 5 \text{KNO}_2 + 6 \text{HCl} = 2 \text{MnCl}_2 + 2 \text{KCl} + 5 \text{KNO}_3 + 3 \text{H}_2\text{O}$
13. $2 \text{Fe(OH)}_3(\text{s}) + 3 \text{H}_2\text{SO}_4(\text{aq}) = \text{Fe}_2(\text{SO}_4)_3(\text{aq}) + 6 \text{H}_2\text{O}(\text{l})$
14. $\text{Sb}_2\text{O}_3 + 3 \text{C} = 2 \text{Sb} + 3 \text{CO}$
15. $2 \text{H}_3\text{BO}_3(\text{s}) = \text{B}_2\text{O}_3(\text{s}) + 3 \text{H}_2\text{O}(\text{l})$
16. $\text{Sn} + 2 \text{NaOH} = \text{Na}_2\text{SnO}_2 + \text{H}_2$
17. $2 \text{LiOH} + \text{H}_2\text{SO}_4 = \text{Li}_2\text{SO}_4 + 2 \text{H}_2\text{O}$
18. $2 \text{HGO} = 2 \text{HG} + \text{O}_2$
19. $\text{NaAl}(\text{CO}_3)(\text{OH})_2(\text{s}) + 4 \text{HCl}(\text{aq}) = \text{NaCl}(\text{aq}) + \text{AlCl}_3(\text{aq}) + \text{CO}_2(\text{g}) + 3 \text{H}_2\text{O}(\text{l})$
20. $\text{Pb}(\text{NO}_3)_2 + 2 \text{KI} = \text{PbI}_2 + 2 \text{KNO}_3$



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