

Balancing Worksheet #1

Please note that several of these equations are already balanced as written. The answers are in this file and are several lines below the last problem. There are 50 problems in two columns.

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| <p>1. $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$</p> <p>2. $\text{S}_8 + \text{O}_2 \rightarrow \text{SO}_3$</p> <p>3. $\text{HgO} \rightarrow \text{Hg} + \text{O}_2$</p> <p>4. $\text{Zn} + \text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2$</p> <p>5. $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$</p> <p>6. $\text{C}_{10}\text{H}_{16} + \text{Cl}_2 \rightarrow \text{C} + \text{HCl}$</p> <p>7. $\text{Si}_2\text{H}_3 + \text{O}_2 \rightarrow \text{SiO}_2 + \text{H}_2\text{O}$</p> <p>8. $\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$</p> <p>9. $\text{C}_7\text{H}_6\text{O}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$</p> <p>10. $\text{FeS}_2 + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2$</p> <p>11. $\text{Fe}_2\text{O}_3 + \text{H}_2 \rightarrow \text{Fe} + \text{H}_2\text{O}$</p> <p>12. $\text{K} + \text{Br}_2 \rightarrow \text{KBr}$</p> <p>13. $\text{C}_2\text{H}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$</p> <p>14. $\text{H}_2\text{O}_2 \rightarrow \text{H}_2\text{O} + \text{O}_2$</p> <p>15. $\text{C}_7\text{H}_{16} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$</p> <p>16. $\text{SiO}_2 + \text{HF} \rightarrow \text{SiF}_4 + \text{H}_2\text{O}$</p> <p>17. $\text{KClO}_3 \rightarrow \text{KCl} + \text{O}_2$</p> <p>18. $\text{KClO}_3 \rightarrow \text{KClO}_4 + \text{KCl}$</p> <p>19. $\text{P}_4\text{O}_{10} + \text{H}_2\text{O} \rightarrow \text{H}_3\text{PO}_4$</p> <p>20. $\text{Sb} + \text{O}_2 \rightarrow \text{Sb}_4\text{O}_6$</p> <p>21. $\text{C}_3\text{H}_8 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$</p> <p>22. $\text{Fe}_2\text{O}_3 + \text{CO} \rightarrow \text{Fe} + \text{CO}_2$</p> <p>23. $\text{PCl}_5 + \text{H}_2\text{O} \rightarrow \text{HCl} + \text{H}_3\text{PO}_4$</p> <p>24. $\text{H}_2\text{S} + \text{Cl}_2 \rightarrow \text{S}_8 + \text{HCl}$</p> <p>25. $\text{Fe} + \text{H}_2\text{O} \rightarrow \text{Fe}_3\text{O}_4 + \text{H}_2$</p> | <p>26. $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$</p> <p>27. $\text{N}_2 + \text{O}_2 \rightarrow \text{N}_2\text{O}$</p> <p>28. $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$</p> <p>29. $\text{SiCl}_4 + \text{H}_2\text{O} \rightarrow \text{H}_4\text{SiO}_4 + \text{HCl}$</p> <p>30. $\text{H}_3\text{PO}_4 \rightarrow \text{H}_4\text{P}_2\text{O}_7 + \text{H}_2\text{O}$</p> <p>31. $\text{CO}_2 + \text{NH}_3 \rightarrow \text{OC}(\text{NH}_2)_2 + \text{H}_2\text{O}$</p> <p>32. $\text{Al}(\text{OH})_3 + \text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + \text{H}_2\text{O}$</p> <p>33. $\text{Fe}_2(\text{SO}_4)_3 + \text{KOH} \rightarrow \text{K}_2\text{SO}_4 + \text{Fe}(\text{OH})_3$</p> <p>34. $\text{H}_2\text{SO}_4 + \text{HI} \rightarrow \text{H}_2\text{S} + \text{I}_2 + \text{H}_2\text{O}$</p> <p>35. $\text{Al} + \text{FeO} \rightarrow \text{Al}_2\text{O}_3 + \text{Fe}$</p> <p>36. $\text{Na}_2\text{CO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$</p> <p>37. $\text{P}_4 + \text{O}_2 \rightarrow \text{P}_2\text{O}_5$</p> <p>38. $\text{K}_2\text{O} + \text{H}_2\text{O} \rightarrow \text{KOH}$</p> <p>39. $\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3$</p> <p>40. $\text{Na}_2\text{O}_2 + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{O}_2$</p> <p>41. $\text{C} + \text{H}_2\text{O} \rightarrow \text{CO} + \text{H}_2$</p> <p>42. $\text{H}_3\text{AsO}_4 \rightarrow \text{As}_2\text{O}_5 + \text{H}_2\text{O}$</p> <p>43. $\text{Al}_2(\text{SO}_4)_3 + \text{Ca}(\text{OH})_2 \rightarrow \text{Al}(\text{OH})_3 + \text{CaSO}_4$</p> <p>44. $\text{FeCl}_3 + \text{NH}_4\text{OH} \rightarrow \text{Fe}(\text{OH})_3 + \text{NH}_4\text{Cl}$</p> <p>45. $\text{Ca}_3(\text{PO}_4)_2 + 6\text{SiO}_2 \rightarrow \text{P}_4\text{O}_{10} + \text{CaSiO}_3$</p> <p>46. $\text{N}_2\text{O}_5 + \text{H}_2\text{O} \rightarrow \text{HNO}_3$</p> <p>47. $\text{Al} + \text{HCl} \rightarrow \text{AlCl}_3 + \text{H}_2$</p> <p>48. $\text{H}_3\text{BO}_3 \rightarrow \text{H}_4\text{B}_6\text{O}_{11} + \text{H}_2\text{O}$</p> <p>49. $\text{Mg} + \text{N}_2 \rightarrow \text{Mg}_3\text{N}_2$</p> <p>50. $\text{NaOH} + \text{Cl}_2 \rightarrow \text{NaCl} + \text{NaClO} + \text{H}_2\text{O}$</p> |
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