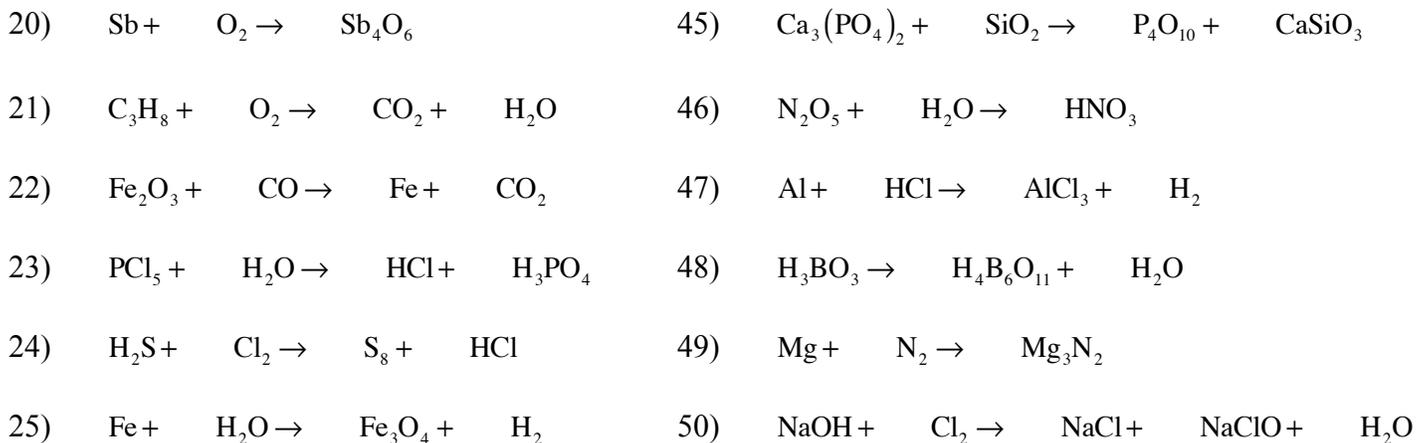


Name \_\_\_\_\_ Date \_\_\_\_\_ Hour \_\_\_\_\_

### Chemistry – Balancing Worksheet – 3

- 1)  $\text{H}_2 + \text{O}_2 \rightarrow \text{H}_2\text{O}$
- 2)  $\text{S}_8 + \text{O}_2 \rightarrow \text{SO}_3$
- 3)  $\text{HgO} \rightarrow \text{Hg} + \text{O}_2$
- 4)  $\text{Zn} + \text{HCl} \rightarrow \text{ZnCl}_2 + \text{H}_2$
- 5)  $\text{Na} + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{H}_2$
- 6)  $\text{C}_{10}\text{H}_{16} + \text{Cl}_2 \rightarrow \text{C} + \text{HCl}$
- 7)  $\text{Si}_2\text{H}_3 + \text{O}_2 \rightarrow \text{SiO}_2 + \text{H}_2\text{O}$
- 8)  $\text{Fe} + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3$
- 9)  $\text{C}_7\text{H}_6\text{O}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
- 10)  $\text{FeS}_2 + \text{O}_2 \rightarrow \text{Fe}_2\text{O}_3 + \text{SO}_2$
- 11)  $\text{Fe}_2\text{O}_3 + \text{H}_2 \rightarrow \text{Fe} + \text{H}_2\text{O}$
- 12)  $\text{K} + \text{Br}_2 \rightarrow \text{KBr}$
- 13)  $\text{C}_2\text{H}_2 + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
- 14)  $\text{H}_2\text{O}_2 \rightarrow \text{H}_2\text{O} + \text{O}_2$
- 15)  $\text{C}_7\text{H}_{16} + \text{O}_2 \rightarrow \text{CO}_2 + \text{H}_2\text{O}$
- 16)  $\text{SiO}_2 + \text{HF} \rightarrow \text{SiF}_4 + \text{H}_2\text{O}$
- 17)  $\text{KClO}_3 \rightarrow \text{KCl} + \text{O}_2$
- 18)  $\text{KClO}_3 \rightarrow \text{KClO}_4 + \text{KCl}$
- 19)  $\text{P}_4\text{O}_{10} + \text{H}_2\text{O} \rightarrow \text{H}_3\text{PO}_4$
- 26)  $\text{N}_2 + \text{H}_2 \rightarrow \text{NH}_3$
- 27)  $\text{N}_2 + \text{O}_2 \rightarrow \text{N}_2\text{O}$
- 28)  $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$
- 29)  $\text{SiCl}_4 + \text{H}_2\text{O} \rightarrow \text{H}_4\text{SiO}_4 + \text{HCl}$
- 30)  $\text{H}_3\text{PO}_4 \rightarrow \text{H}_4\text{P}_2\text{O}_7 + \text{H}_2\text{O}$
- 31)  $\text{CO}_2 + \text{NH}_3 \rightarrow \text{OC}(\text{NH}_2)_2 + \text{H}_2\text{O}$
- 32)  $\text{Al}(\text{OH})_3 + \text{H}_2\text{SO}_4 \rightarrow \text{Al}_2(\text{SO}_4)_3 + \text{H}_2\text{O}$
- 33)  $\text{Fe}_2(\text{SO}_4)_3 + \text{KOH} \rightarrow \text{K}_2\text{SO}_4 + \text{Fe}(\text{OH})_3$
- 34)  $\text{H}_2\text{SO}_4 + \text{HI} \rightarrow \text{H}_2\text{S} + \text{I}_2 + \text{H}_2\text{O}$
- 35)  $\text{Al} + \text{FeO} \rightarrow \text{Al}_2\text{O}_3 + \text{Fe}$
- 36)  $\text{Na}_2\text{CO}_3 + \text{HCl} \rightarrow \text{NaCl} + \text{H}_2\text{O} + \text{CO}_2$
- 37)  $\text{P}_4 + \text{O}_2 \rightarrow \text{P}_2\text{O}_5$
- 38)  $\text{K}_2\text{O} + \text{H}_2\text{O} \rightarrow \text{KOH}$
- 39)  $\text{Al} + \text{O}_2 \rightarrow \text{Al}_2\text{O}_3$
- 40)  $\text{Na}_2\text{O}_2 + \text{H}_2\text{O} \rightarrow \text{NaOH} + \text{O}_2$
- 41)  $\text{C} + \text{H}_2\text{O} \rightarrow \text{CO} + \text{H}_2$
- 42)  $\text{H}_3\text{AsO}_4 \rightarrow \text{As}_2\text{O}_5 + \text{H}_2\text{O}$
- 43)  $\text{Al}_2(\text{SO}_4)_3 + \text{Ca}(\text{OH})_2 \rightarrow \text{Al}(\text{OH})_3 + \text{CaSO}_4$
- 44)  $\text{FeCl}_3 + \text{NH}_4\text{OH} \rightarrow \text{Fe}(\text{OH})_3 + \text{NH}_4\text{Cl}$



## Answers

- |     |       |       |        |     |      |       |         |
|-----|-------|-------|--------|-----|------|-------|---------|
| 1.  | 2, 1  | ----> | 2      | 26. | 1, 3 | ----> | 2       |
| 2.  | 1, 12 | ----> | 8      | 27. | 2, 1 | ----> | 2       |
| 3.  | 2     | ----> | 2, 1   | 28. | 6, 6 | ----> | 1, 6    |
| 4.  | 1, 2  | ----> | 1, 1   | 29. | 1, 4 | ----> | 1, 4    |
| 5.  | 2, 2  | ----> | 2, 1   | 30. | 2    | ----> | 1, 1    |
| 6.  | 1, 8  | ----> | 10, 16 | 31. | 1, 2 | ----> | 1, 1    |
| 7.  | 4, 11 | ----> | 8, 6   | 32. | 2, 3 | ----> | 1, 6    |
| 8.  | 4, 3  | ----> | 2      | 33. | 1, 6 | ----> | 3, 2    |
| 9.  | 2, 15 | ----> | 14, 6  | 34. | 1, 8 | ----> | 1, 4, 4 |
| 10. | 4, 11 | ----> | 2, 8   | 35. | 2, 3 | ----> | 1, 3    |
| 11. | 1, 3  | ----> | 2, 3   | 36. | 1, 2 | ----> | 2, 1, 1 |
| 12. | 2, 1  | ----> | 2      | 37. | 1, 5 | ----> | 2       |
| 13. | 2, 5  | ----> | 4, 2   | 38. | 1, 1 | ----> | 2       |
| 14. | 2     | ----> | 2, 1   | 39. | 4, 3 | ----> | 2       |
| 15. | 1, 11 | ----> | 7, 8   | 40. | 2, 2 | ----> | 4, 1    |
| 16. | 1, 4  | ----> | 1, 2   | 41. | 1, 1 | ----> | 1, 1    |
| 17. | 2     | ----> | 2, 3   | 42. | 2    | ----> | 1, 3    |
| 18. | 4     | ----> | 3, 1   | 43. | 1, 3 | ----> | 2, 3    |
| 19. | 1, 6  | ----> | 4      | 44. | 1, 3 | ----> | 1, 3    |
| 20. | 4, 3  | ----> | 1      | 45. | 2, 6 | ----> | 1, 6    |
| 21. | 1, 5  | ----> | 3, 4   | 46. | 1, 1 | ----> | 2       |
| 22. | 1, 3  | ----> | 2, 3   | 47. | 2, 6 | ----> | 2, 3    |
| 23. | 1, 4  | ----> | 5, 1   | 48. | 6    | ----> | 1, 7    |
| 24. | 8, 8  | ----> | 1, 16  | 49. | 3, 1 | ----> | 1       |
| 25. | 3, 4  | ----> | 1, 4   | 50. | 2, 1 | ----> | 1, 1, 1 |