

Balancing Equations Worksheet

1. $__ \text{Na} + __ \text{O}_2 \rightarrow __ \text{Na}_2\text{O}$
2. $__ \text{K} + __ \text{Cl}_2 \rightarrow __ \text{KCl}$
3. $__ \text{Mg} + __ \text{N}_2 \rightarrow __ \text{Mg}_3\text{N}_2$
4. $__ \text{Li} + __ \text{S} \rightarrow __ \text{Li}_2\text{S}$
5. $__ \text{Al} + __ \text{Br}_2 \rightarrow __ \text{AlBr}_3$
6. $__ \text{P}_4 + __ \text{O}_2 \rightarrow __ \text{P}_2\text{O}_5$
7. $__ \text{O}_3 \rightarrow __ \text{O}_2$
8. $__ \text{CO}_2 + __ \text{LiOH} \rightarrow __ \text{Li}_2\text{CO}_3 + __ \text{H}_2\text{O}$
9. $__ \text{K}_2\text{SO}_4 + __ \text{BaCl}_2 \rightarrow __ \text{KCl} + __ \text{BaSO}_4$
10. $__ \text{CaC}_3 + __ \text{O}_2 \rightarrow __ \text{Ca} + __ \text{CO}_2$
11. $__ \text{F}_2 + __ \text{H}_2\text{O} \rightarrow __ \text{HF} + __ \text{O}_2$
12. $__ \text{KClO}_3 \rightarrow __ \text{KCl} + __ \text{O}_2$
13. $__ \text{C} + __ \text{S}_8 \rightarrow __ \text{CS}_2$
14. $__ \text{Na} + __ \text{O}_2 \rightarrow __ \text{Na}_2\text{O}_2$
15. $__ \text{HCl} + __ \text{NaOH} \rightarrow __ \text{NaCl} + __ \text{H}_2\text{O}$
16. $__ \text{N}_2 + __ \text{H}_2 \rightarrow __ \text{NH}_3$
17. $__ \text{Na} + __ \text{O}_2 \rightarrow __ \text{Na}_2\text{O}$
18. $__ \text{H}_2 + __ \text{O}_2 \rightarrow __ \text{H}_2\text{O}_2$
19. $__ \text{NaOH} + __ \text{H}_2\text{CO}_3 \rightarrow __ \text{Na}_2\text{CO}_3 + __ \text{H}_2\text{O}$
20. $__ \text{C}_3\text{H}_8 + __ \text{O}_2 \rightarrow __ \text{CO}_2 + __ \text{H}_2\text{O}$
21. $__ \text{Mg} + __ \text{HCl} \rightarrow __ \text{MgCl}_2 + __ \text{H}_2$

22. $___ \text{Al} + ___ \text{O}_2 \rightarrow ___ \text{Al}_2\text{O}_3$
23. $___ \text{NaOH} + ___ \text{Ca}(\text{NO}_3)_2 \rightarrow ___ \text{Ca}(\text{OH})_2 + ___ \text{NaNO}_3$
24. $___ \text{Na} + ___ \text{NaNO}_3 \rightarrow ___ \text{Na}_2\text{O} + ___ \text{N}_2$
25. $___ \text{H}_3\text{PO}_4 + ___ \text{Mg}(\text{OH})_2 \rightarrow ___ \text{Mg}_3(\text{PO}_4)_2 + ___ \text{H}_2\text{O}$
26. $___ \text{KOH} + ___ \text{HBr} \rightarrow ___ \text{KBr} + ___ \text{H}_2\text{O}$
27. $___ \text{H}_2\text{S} + ___ \text{Pb}(\text{NO}_3)_2 \rightarrow ___ \text{HNO}_3 + ___ \text{PbS}$
28. $___ \text{H}_3\text{PO}_4 + ___ \text{KOH} \rightarrow ___ \text{K}_3\text{PO}_4 + ___ \text{H}_2\text{O}$

Write a chemical equation for the following word equations and then balance it.

29. Mercury + oxygen \rightarrow mercury (II) oxide

30. Copper + bromine \rightarrow copper (II) bromide

31. Sodium + chlorine \rightarrow sodium chloride

32. Calcium + oxygen \rightarrow calcium oxide

33. Sodium chloride + sulfuric acid \rightarrow sodium sulfate + hydrogen chloride

34. Barium chloride + sodium hydroxide \rightarrow barium hydroxide + sodium chloride

35. Sodium chlorate \rightarrow sodium chloride + oxygen