

Reaction Types and Balancing Practice

Balance the following chemical equations and indicate the type of the reaction.

	Reaction Type
1. _____ Cu + _____ Fe(NO ₃) ₂ → _____ Cu(NO ₃) ₂ + _____ Fe	_____
2. _____ CaF ₂ + _____ H ₂ SO ₄ → _____ CaSO ₄ + _____ HF	_____
3. _____ Sc ₂ O ₃ → _____ Sc + _____ O ₂	_____
4. _____ NaOH + _____ H ₂ CO ₃ → _____ + Na ₂ CO ₃ + _____ H ₂ O	_____
5. _____ AgNO ₃ + _____ NaCl → _____ AgCl + _____ NaNO ₃	_____
6. _____ Al(OH) ₃ + _____ H ₂ SO ₄ → _____ Al ₂ (SO ₄) ₃ + _____ H ₂ O	_____
7. _____ K + _____ O ₂ → _____ K ₂ O	_____
8. _____ Ba(OH) ₂ + _____ H ₂ SO ₄ → _____ BaSO ₄ + _____ H ₂ O	_____
9. _____ Al ₂ (SO ₄) ₃ + _____ Ca(OH) ₂ → _____ Al(OH) ₃ + _____ CaSO ₄	_____
10. _____ Cu + _____ AgNO ₃ → _____ Ag + _____ CuNO ₃	_____
11. _____ Na + _____ Cl ₂ → _____ NaCl	_____
12. _____ Ca ₃ (PO ₄) ₂ + _____ H ₂ SO ₄ → _____ CaSO ₄ + _____ H ₃ PO ₄	_____
13. _____ BaSO ₄ + _____ CuCl ₂ → _____ CuSO ₄ + _____ BaCl ₂	_____
14. _____ C ₃ H ₈ + _____ O ₂ → _____ CO ₂ + _____ H ₂ O	_____
15. _____ Zn + _____ CuSO ₄ → _____ ZnSO ₄ + _____ Cu	_____
16. _____ H ₂ SO ₄ + _____ Zn → _____ Zn ₂ SO ₄ + _____ H ₂	_____
17. _____ O ₂ + _____ CH ₄ → _____ CO ₂ + _____ H ₂ O	_____
18. _____ CaO + _____ Al → _____ Al ₂ O ₃ + _____ Ca	_____
19. _____ Cl ₂ + _____ NaBr → _____ NaCl + _____ Br ₂	_____
20. _____ Pb(NO ₃) ₂ + _____ NaI → _____ NaNO ₃ + _____ PbI ₂	_____

21. _____ Fe + _____ Cu(NO₃)₂ → _____ Cu + _____ Fe(NO₃)₂ _____
22. _____ CaCO₃ + _____ HCl → _____ CaCl₂ + _____ CO₂ + _____ H₂O _____
23. _____ KNO₃ + _____ H₂SO₄ → _____ K₂SO₄ + _____ HNO₃ _____
24. _____ Li₂CO₃ → _____ Li₂O + _____ CO₂ _____
25. _____ C₂H₆ + _____ O₂ → _____ CO₂ + _____ H₂O _____
26. _____ CO₂ + _____ Na₂O → _____ Na₂CO₃ _____
27. _____ KClO₃ → _____ KCl + _____ O₂ _____
28. _____ KOH + _____ H₃PO₄ → _____ K₃PO₄ + _____ H₂O _____
29. _____ Zn + _____ CuCl₂ → _____ ZnCl₂ + _____ Cu _____
30. _____ BaO + _____ H₂O → _____ Ba(OH)₂ _____
31. _____ KI + _____ Br₂ → _____ KBr + _____ I₂ _____
32. _____ C₆H₁₂O₆ + _____ O₂ → _____ CO₂ + _____ H₂O _____
33. _____ AgNO₃ + _____ ZnCl₂ → _____ AgCl + _____ Zn(NO₃)₂ _____
34. _____ Na₂SO₄ + _____ Ba(NO₃)₂ → _____ BaSO₄ + _____ NaNO₃ _____
35. _____ Zn + _____ HCl → _____ ZnCl + _____ H₂ _____
36. _____ NaCl → _____ Na + _____ Cl₂ _____
37. _____ CH₄ + _____ O₂ → _____ CO₂ + _____ H₂O _____
38. _____ Fe + _____ H₂SO₄ → _____ FeSO₄ + _____ H₂ _____
39. _____ H₂CO₃ → _____ CO₂ + _____ H₂O _____
40. _____ CuSO₄ + _____ Na₂S → _____ CuS + _____ Na₂SO₄ _____
41. _____ Cl₂ + _____ NaBr → _____ NaCl + _____ Br₂ _____
42. _____ KOH + _____ H₂SO₄ → _____ K₂SO₄ + _____ H₂O _____
43. _____ NaClO₃ → _____ NaCl + _____ O₂ _____

