Science 10 Name:

Balancing equations

Starting with the skeleton equations, balance the following equations by adding coefficients (big numbers in front) where appropriate.

1. H2 + F2 → HF H2 + F2 → 2HF

2. Sn + O2 → SnO 2Sn + O2 → 2SnO

3. MgCl2 → Mg + Cl2 MgCl2 → Mg + Cl2

4. BN + F2 → BF3 + N2 2BN + 3F2 → 2BF3 + N2

5. CuI2 + Fe → FeI2 + Cu CuI2 + Fe → FeI2 + Cu

6. Li + H2O → LiOH + H2 2Li + 2H20 → 2LiOH + H2

7. NH3 + O2 → N2 + H2O 4NH3 + 3O2 → 2N2 + 6H20

8. V2O5 + Ca → CaO + V V2O5 + 5Ca → 5CaO + 2V

9. H2S + PbCl2 → PbS + HCl H2S + PbCl2 → PbS + 2HCl

10. KNO3 → KNO2 + O2 4KNO3 → 4KNO2 + 2O2

11. Zn + CuSO4 → Cu + ZnSO4 Zn + CuSO4 → Cu + ZnSO4

12. C6H12O6 + O2 → CO2 + H2O C6H12O6 + 6O2 → 6CO2 + 6H2O

13. Al + H2SO4 → H2 + Al2(SO4)3 2Al + 3H2SO4 → 3H2 + Al2(SO4)3

14. FeCl3 + Ca(OH)2 → Fe(OH)3 + CaCl2

2FeCl3 + 3Ca(OH)2 → 2Fe(OH)3 + 3CaCl2

15. Pb(NO3)2 + K2CrO4 → PbCrO4 + KNO3

 Pb(NO3)2 + K2CrO4 → PbCrO4 + 2KNO3

16. Cd(NO3)2 + (NH4)2S → CdS + NH4NO3

Cd(NO3)2 + (NH4)2S → CdS + 2NH4NO3

17. Ca(OH)2 + NH4Cl → NH3 + CaCl2 + H2O

 Ca(OH)2 + 2NH4Cl →2NH3 + CaCl2 + 2H2O