**Balancing Chemical Equations Worksheet**

Balance the following equations in the space provided. Remember that only coefficients (the number in front of the chemical formula) can be changed

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1. | 2Ca | + | O2 | --> | 2CaO |  |  |  |  |
| 2. | CH4 | + | 4Cl2 | --> | CCl4 | + | 4HCl |  |  |
| 3. | 2NO | + | O2 | --> | 2NO2 |  |  |  |  |
| 4. | 2KOH | + | H2(SO4) | --> | K2SO4 | + | 2H2O |  |  |
| 5. | CH4 | + | 2O2 | --> | CO2 | + | 2H2O |  |  |
| 6. | 2Al(OH)3 | + | 3H2(SO4) | --> | Al2(SO4)3 | + | 6H2O |  |  |
| 7. | Ca(NO3)2 | + | Na2(CO3) | --> | CaCO3 | + | 2NaNO3 |  |  |
| 8. | 2Na | + | O2 | --> | Na2O |  |  |  |  |
| 9. | 2K | + | Cl2 | --> | 2KCl |  |  |  |  |
| 10. | 2Al | + | 3Br2 | --> | 2AlBr3 |  |  |  |  |
| 11. | 2Li | + | S | --> | Li2S |  |  |  |  |
| 12. | 3Mg | + | N2 | --> | Mg3N2 |  |  |  |  |
| 13. | 2Na | + | 2H2O | --> | 2NaOH | + | H2 |  |  |
| 14. |  |  | 2O3 | --> | 3O2 |  |  |  |  |
| 15. |  |  | 2Al2O3 | --> | 4Al | + | 3O2 |  |  |
| 16. | P4 | + | 5O2 | --> | P4O10 |  |  |  |  |
| 17. | 4FeS2 | + | 11O2 | --> | 2Fe2O3 | + | 8SO2 |  |  |
| 18. | Mg | + | 2HCl | --> | MgCl2 | + | H2 |  |  |
| 19. | 2Al | + | 3CuSO4 | --> | Al2(SO4)3 | + | 3Cu |  |  |
| 20. | Fe | + | 2CrNO3 | --> | Fe(NO3)2 | + | 2Cr |  |  |
| 21. |  |  | 2KClO3 | --> | 2KCl | + | 3O2 |  |  |
| 22. |  |  | 2SbH3 | --> | 2Sb | + | 3H2 |  |  |
| 23. | 3(NH4)2SO4 | + | 2Al(NO3)3 | --> | Al2(SO4)3 | + | 6NH4NO3 |  |  |
| 24. | 3Mg | + | 2H3PO4 | --> | Mg3(PO4)2 | + | 3H2 |  |  |
| 25. | 3Ca(OH)2 | + | 2H3AsO4 | --> | 6H2O | + | Ca3(AsO4)2 |  |  |
| 26. | 2FeCl3 | + | 3(NH4)2S | --> | Fe2S3 | + | 6NH4Cl |  |  |
| 27. |  |  | 2Cu(NO3)2 | --> | 2CuO | + | 4NO2 | + | O2 |