

Balancing Chemical Equations 2

EXERCISES

Balance the following equations by writing in coefficients in front of the molecules.

- 1) $\underline{\hspace{1cm}}$ Mg + $\underline{\hspace{1cm}}$ N₂ → $\underline{\hspace{1cm}}$ Mg₃N₂
- 2) $\underline{\hspace{1cm}}$ Ca(ClO₃)₂ → $\underline{\hspace{1cm}}$ CaCl₂ + $\underline{\hspace{1cm}}$ O₂
- 3) $\underline{\hspace{1cm}}$ K + $\underline{\hspace{1cm}}$ H₂O → $\underline{\hspace{1cm}}$ KOH + $\underline{\hspace{1cm}}$ H₂
- 4) $\underline{\hspace{1cm}}$ HCl + $\underline{\hspace{1cm}}$ Ba(OH)₂ → $\underline{\hspace{1cm}}$ BaCl₂ + $\underline{\hspace{1cm}}$ H₂O
- 5) $\underline{\hspace{1cm}}$ Pb(NO₃)₂ + $\underline{\hspace{1cm}}$ NaCl → $\underline{\hspace{1cm}}$ PbCl₂ + $\underline{\hspace{1cm}}$ NaNO₃
- 6) $\underline{\hspace{1cm}}$ As₂S₃ + $\underline{\hspace{1cm}}$ HCl → $\underline{\hspace{1cm}}$ AsCl₃ + $\underline{\hspace{1cm}}$ H₂S
- 7) $\underline{\hspace{1cm}}$ SO₂ + $\underline{\hspace{1cm}}$ O₂ → $\underline{\hspace{1cm}}$ SO₃
- 8) $\underline{\hspace{1cm}}$ NH₄NO₃ → $\underline{\hspace{1cm}}$ N₂O + $\underline{\hspace{1cm}}$ H₂O
- 9) $\underline{\hspace{1cm}}$ Al + $\underline{\hspace{1cm}}$ H₂SO₄ → $\underline{\hspace{1cm}}$ Al₂(SO₄)₃ + $\underline{\hspace{1cm}}$ H₂
- 10) $\underline{\hspace{1cm}}$ Zn + $\underline{\hspace{1cm}}$ HCl(H₂O₂) → $\underline{\hspace{1cm}}$ Zn(H₂O₂)₂ + $\underline{\hspace{1cm}}$ H₂
- 11) $\underline{\hspace{1cm}}$ C₂H₆ + $\underline{\hspace{1cm}}$ O₂ → $\underline{\hspace{1cm}}$ CO₂ + $\underline{\hspace{1cm}}$ H₂O
- 12) $\underline{\hspace{1cm}}$ C₂H₆ + $\underline{\hspace{1cm}}$ O₂ → $\underline{\hspace{1cm}}$ CO₂ + $\underline{\hspace{1cm}}$ H₂O
- 13) $\underline{\hspace{1cm}}$ BaCO₃ + $\underline{\hspace{1cm}}$ (NH₄)₂CO₃ → $\underline{\hspace{1cm}}$ BaCO₃ + $\underline{\hspace{1cm}}$ NH₄Cl
- 14) $\underline{\hspace{1cm}}$ Ca₃(PO₄)₂ + $\underline{\hspace{1cm}}$ H₃PO₄ → $\underline{\hspace{1cm}}$ Ca(H₂PO₄)₂
- 15) $\underline{\hspace{1cm}}$ Mg + $\underline{\hspace{1cm}}$ SiO₂ → $\underline{\hspace{1cm}}$ MgO + $\underline{\hspace{1cm}}$ Si
- 16) $\underline{\hspace{1cm}}$ Al + $\underline{\hspace{1cm}}$ MnO₂ → $\underline{\hspace{1cm}}$ Mn + $\underline{\hspace{1cm}}$ Al₂O₃
- 17) $\underline{\hspace{1cm}}$ Al₂S₃ + $\underline{\hspace{1cm}}$ H₂O → $\underline{\hspace{1cm}}$ Al(OH)₃ + $\underline{\hspace{1cm}}$ H₂S
- 18) $\underline{\hspace{1cm}}$ C₂H₅OH + $\underline{\hspace{1cm}}$ O₂ → $\underline{\hspace{1cm}}$ CO₂ + $\underline{\hspace{1cm}}$ H₂O
- 19) $\underline{\hspace{1cm}}$ H₂O₂ → $\underline{\hspace{1cm}}$ H₂O + $\underline{\hspace{1cm}}$ O₂
- 20) $\underline{\hspace{1cm}}$ Cu + $\underline{\hspace{1cm}}$ H₂O → $\underline{\hspace{1cm}}$ Cu(OH)₂ + $\underline{\hspace{1cm}}$ H₂