

9 Metals and alloys — Part 1 — Answers

Answers

Work through these after trying the questions yourself.

9.1 Any two of: good conductor of heat; good conductor of electricity; malleable; ductile; high melting point.

9.2 A mixture of a metal with one or more other elements; e.g. brass (copper + zinc) or steel (iron + carbon).

9.3 The different-sized atoms stop the layers of atoms sliding over each other, so the alloy is harder and stronger.

9.4 Magnesium.

9.5 It will displace the copper (zinc is more reactive), forming zinc sulfate and copper metal.

9.6 (a) Magnesium displaces the iron (magnesium is more reactive), forming magnesium sulfate and iron. (b) No reaction — copper is less reactive than iron, so it cannot displace it.