

2 Atoms and elements – Part 1 —Answers

Answers

Work through these after trying the questions yourself.

2.1 An element has only one type of atom; a compound is two or more elements chemically joined (bonded) in a fixed ratio.

2.2 (a) $+1$ \ (b) 0 \ (c) -1 .

2.3 (a) 11 \ (b) $11 + 12 = 23$.

2.4 $2, 8, 1$.

2.5 Atoms of the same element (same number of protons) with different numbers of neutrons.

2.6 Chlorine-35 has $35 - 17 = 18$ neutrons; chlorine-37 has $37 - 17 = 20$. They react identically because both have 17 electrons, and chemistry depends on the electrons.