

Name: e-mail:

OCR AS Level Chemistry – Paper 1
Unit 1: Atoms, Bonds and Groups
(Each question = 1 mark)

1. Which one of the following statements about the atom is false?
- A A neutron has the same relative mass as a proton.
B The number of neutrons in an atom is the same as the number of protons.
C The relative mass of an electron is very small compared to that of a proton.
D Clouds of negative charge surround the nucleus.

☐ B

2. The number of neutrons present in the cobalt isotope $^{60}_{27}\text{Co}$ is

- A 33
B 27
C 60
D 87

☐ A

3. The analysis of a sample of rubidium using a mass spectrometer showed that two isotopes were present, ^{85}Rb and ^{87}Rb . The table below shows the percentage abundance for each isotope:

isotope	^{85}Rb	^{87}Rb
relative isotopic mass	85.0	87.0
% abundance	72.1	27.9

Which one of the following is the relative atomic mass of rubidium to three significant figures?

- A 85.5
B 86.5
C 85.6
D 86.4

☐ C

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