

S2 ACTION PACKED CHEMISTRY**Homework 2**

1. . An atom is neutral because
- A the number of electrons equals the total number of protons plus neutrons
 - B the number of neutrons equals the total number of electrons plus protons
 - C the number of protons equals the number of neutrons
 - D the number of electrons equals the number of protons.
2. Copper is made up of two different types of atoms as shown in the table below.

	Number of protons	Number of neutrons
${}^{63}_{29}\text{Cu}$		
${}^{65}_{29}\text{Cu}$		

- a) Copy and complete the table above to show the number of protons and neutrons in the two different types of copper atom.
- b) What name is used to describe these two different types of atom?
- c) The relative atomic mass for copper in the data book is given as 63.5. What is the mass number of the most abundant atom?
- d) Why is the relative atomic mass for copper not a whole number?

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