

**1** From AQA Chemistry Unit 1 Foundation Chemistry CHEM1 May 2014  
(Question 1).

**a** Table 1.1 shows some data about fundamental particles in an atom.

**Table 1.1** Mass of fundamental particles

Particle	proton	neutron	electron
Mass / g	$1.6725 \times 10^{-24}$	$1.6725 \times 10^{-24}$	$0.0009 \times 10^{-24}$

- i** An atom of hydrogen can be represented as  ${}^1\text{H}$ . Use data from Table 1.1 to calculate the mass of this hydrogen atom.

$$1.6734 \times 10^{-27} \text{ kg}$$

(1 mark)

- ii** Which one of the following is a fundamental particle that would not be deflected by an electric field?

- A** electron  
**B** neutron  
**C** proton

Write the correct letter, **A**, **B**, or **C**, on the line below.

**B**

(1 mark)

- b** A naturally occurring sample of the element boron has a relative atomic mass of 10.8. In this sample, boron exists as two isotopes,  ${}^{10}\text{B}$  and  ${}^{11}\text{B}$ .

- i** Calculate the percentage abundance of  ${}^{10}\text{B}$  in this naturally occurring sample of boron.

$$10.8 = (10)(x) + (11)(1-x)$$

$$10.8 = 10x + 11 - 11x$$

$$10.8 - 11 = 10x - 11x$$

$$-0.2 = -x$$

$$x = 0.2 \quad 0.2 \times 100 = 20\%$$

(2 marks)

# Sschemistry Examination Question

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