

40 Which statement about nuclei is correct?

- A** Different isotopic nuclei have different proton numbers.
- B** For some nuclei, the nucleon number can be less than the proton number.
- C** In some nuclear processes, mass-energy is not conserved.
- D** Nucleon numbers of nuclei are unchanged by the emission of β -particles.

Space for working

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (UCLES) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

University of Cambridge International Examinations is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.