

**37** Hydrogen and deuterium can be represented by the nuclide symbols  ${}^1_1\text{H}$  and  ${}^2_1\text{H}$  respectively.

What is a difference between hydrogen and deuterium?

- A** The deuterium atom has twice the number of electrons as the hydrogen atom.
- B** The deuterium nucleus has a charge, but the hydrogen nucleus has no charge.
- C** The deuterium nucleus has less mass than the hydrogen nucleus.
- D** The deuterium nucleus has half the charge per unit mass of the hydrogen nucleus.