

**37** Radioactive decay is random.

What is meant by the term *random*?

- A** The decay of a nucleus can be predicted.
- B** The decay of a nucleus is unaffected by pressure.
- C** The decay of a nucleus is unaffected by temperature.
- D** The nucleus has a constant probability of decay per unit time.

**38** The nuclei of the isotopes of an element all contain the same number of a certain particle