

37 Nuclear decay is both spontaneous and random.

When the count rate of a radioactive isotope is measured, the readings fluctuate.

Which row describes what the fluctuations demonstrate?

| | spontaneous nature | random nature |
|----------|--------------------|---------------|
| A | no | no |
| B | no | yes |
| C | yes | no |
| D | yes | yes |

38 Which two nuclei contain the same number of neutrons?