

- 3 A nucleus of ${}^{38}_{19}\text{K}$ emits a β^+ particle.

Which row of the table shows the proton number and nucleon number of the nucleus that is produced?

| | Proton number | Nucleon number |
|----------------------------|---------------|----------------|
| <input type="checkbox"/> A | 18 | 39 |
| <input type="checkbox"/> B | 18 | 38 |
| <input type="checkbox"/> C | 20 | 38 |
| <input type="checkbox"/> D | 20 | 37 |

(Total for Question 3 = 1 mark)