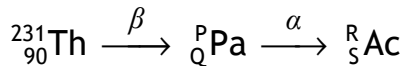


16. Two changes in a radioactive decay series are shown below.



A Thorium nucleus emits a beta particle and the product, a Protactinium nucleus, emits an alpha particle.

Which row in the table shows the numbers represented by P, Q, R, and S?

|   | P   | Q  | R   | S  |
|---|-----|----|-----|----|
| A | 231 | 89 | 227 | 87 |
| B | 231 | 91 | 227 | 89 |
| C | 227 | 88 | 227 | 87 |
| D | 231 | 91 | 231 | 89 |
| E | 227 | 88 | 223 | 86 |