

- 37 Alpha, beta and gamma radiations have various depths of penetration in matter and different charges.

Which row best summarises the penetration and charge of each radiation?

|   | alpha  | beta  | gamma   |
|---|--|---|---|
| A | absorbed by a sheet of card<br>negative charge         | absorbed by several mm of aluminium<br>no charge            | not fully absorbed by several cm of lead<br>no charge |
| B | absorbed by a sheet of card<br>negative charge         | absorbed by several mm of aluminium<br>positive charge      | not fully absorbed by several cm of lead<br>no charge |
| C | absorbed by a sheet of card<br>positive charge         | absorbed by several mm of aluminium<br>negative charge      | not fully absorbed by several cm of lead<br>no charge |
| D | absorbed by several mm of aluminium<br>positive charge | not fully absorbed by several cm of lead<br>negative charge | absorbed by a sheet of card<br>no charge              |

**Space for working**