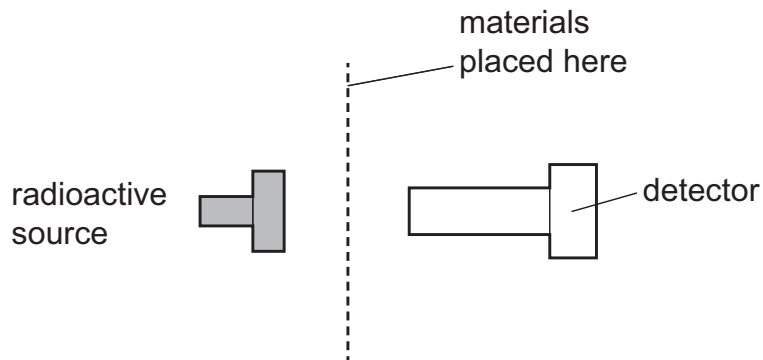


35 A radioactive source is placed near a detector.

The radiation arriving at the detector from the source is measured for 10 minutes with different materials placed between the source and the detector.



material between source and detector	radiation detected / counts
none	5626
sheet of paper	5629
thick sheet of aluminium	2226
thick sheet of lead	255

Which types of radiation are emitted by the source?

- A  $\alpha$ -particles and  $\gamma$ -rays
- B  $\alpha$ -particles only
- C  $\beta$ -particles and  $\gamma$ -rays
- D  $\beta$ -particles only