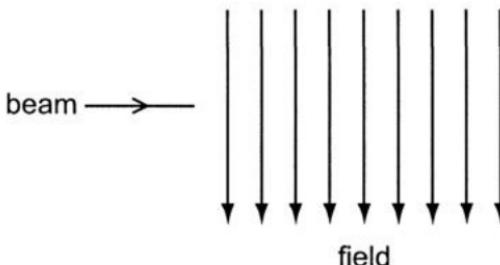


- 9 A beam of particles or radiation is directed horizontally into vertical gravitational, electric and magnetic fields in turn.



The table shows features of the force on the beam and the shape of the beam in each case.

	gravitational field	electric field	magnetic field
force	negligible	upwards	out of the page
shape of beam	a horizontal line	a curve	a circle

Which particles or radiation are used in the beam?

- A alpha particles
- B beta particles
- C gamma rays
- D protons

- 10 An oil tanker, with vertical sides, has an external cross sectional area of 36.500 m^2 in the plane of