

**31** A stationary particle is in an electric field.

The only force on the particle is that from the electric field.

In which case is the electric field strength  $5.0 \times 10^5 \text{ V m}^{-1}$ ?

- A** a force of  $1.6 \times 10^{-14} \text{ N}$  acting on an electron
- B** a force of  $3.2 \times 10^{-14} \text{ N}$  acting on an alpha-particle
- C** a force of  $8.0 \times 10^{-14} \text{ N}$  acting on an alpha-particle
- D** a force of  $8.0 \times 10^{-14} \text{ N}$  acting on a proton