

- 30** An electron is in an electric field of strength $5 \times 10^4 \text{ V m}^{-1}$. The field is the only influence on the electron.

The mass and charge of an electron are known.

Which quantity can be calculated without any more information?

- A** the force on the electron
- B** the momentum of the electron
- C** the kinetic energy of the electron
- D** the speed of the electron

- 31** In an electrolyte, the electric current is carried by charged particles (ions) in solution.