

- 30** Two parallel plates, a distance 25 mm apart, have a potential difference between them of 12 kV.

What is the force on an electron when it is in the uniform electric field between the plates?

**A**  $4.8 \times 10^{-20}$  N

**B**  $7.7 \times 10^{-20}$  N

**C**  $4.8 \times 10^{-17}$  N

**D**  $7.7 \times 10^{-14}$  N

**Space for working**