

**32** A particle situated between two parallel metal plates carries a charge of  $8 \times 10^{-19}$  C.

The potential difference (p.d.) between the plates is 2000 V. A force of  $3.2 \times 10^{-13}$  N due to the electric field acts on the particle.

What is the distance between the plates?

**A** 5 mm

**B** 8 mm

**C** 5 cm

**D** 8 cm

**33** Which unit is equivalent to a coulomb (C)?