

**29** The diagram shows a pair of parallel metal plates 4.0 mm apart connected to a 9.0 V battery.



What is the electric field strength between the plates?

- A**  $4.4 \times 10^{-4} \text{ NC}^{-1}$
- B**  $3.6 \times 10^{-2} \text{ NC}^{-1}$
- C**  $36 \text{ NC}^{-1}$
- D**  $2.3 \times 10^3 \text{ NC}^{-1}$

**30** Which path shows a possible movement of an electron in the electric field shown?