

- 30** Two conducting layers of a liquid crystal display of a calculator are $8\text{ }\mu\text{m}$ apart. A 1.5 V cell is connected across the conducting layers when the calculator is switched on.

What is the electric field strength between the layers?

- A** $1.2 \times 10^{-5}\text{ V m}^{-1}$
- B** 0.19 V m^{-1}
- C** 12 V m^{-1}
- D** $1.9 \times 10^5\text{ V m}^{-1}$

Space for working