

- 32** Two parallel metal plates have a potential difference between them of 12V. The distance between the plates is 1.0 mm.

What are the electric field strength between the plates and the work done on a charge of  $+3.9\text{ }\mu\text{C}$  to move the charge from the negative plate to the positive plate?

	electric field strength / $\text{NC}^{-1}$	work done / J
<b>A</b>	12	$4.7 \times 10^{-5}$
<b>B</b>	12	47
<b>C</b>	12 000	$4.7 \times 10^{-5}$
<b>D</b>	12 000	47

**Space for working**