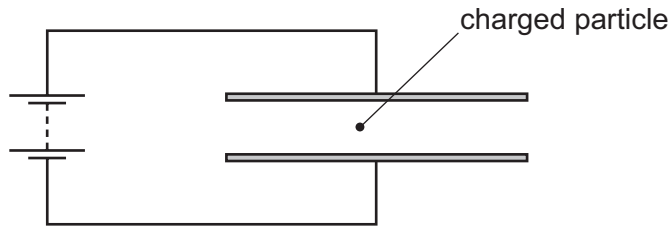


- 31 A charged particle is in the electric field between two horizontal metal plates connected to a source of constant potential difference, as shown.



There is a force F on the particle due to the electric field.

The separation of the plates is doubled.

What will be the new force on the particle?

- A** $\frac{F}{4}$ **B** $\frac{F}{2}$ **C** F **D** $2F$

- 32 The potential difference between point X and point Y in a circuit is 20V. The time taken for charge