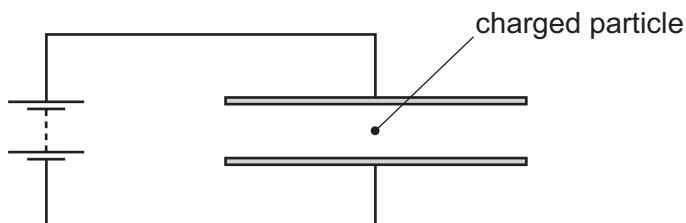


- 30 A charged particle is in the electric field between two horizontal metal plates connected to a source of constant potential difference, as shown. There is a force F on the particle due to the electric field.



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 $2F$

Space for working