28 A horizontal beam of electrons is passed between two horizontal parallel plates, 2.0 cm apart, as shown.
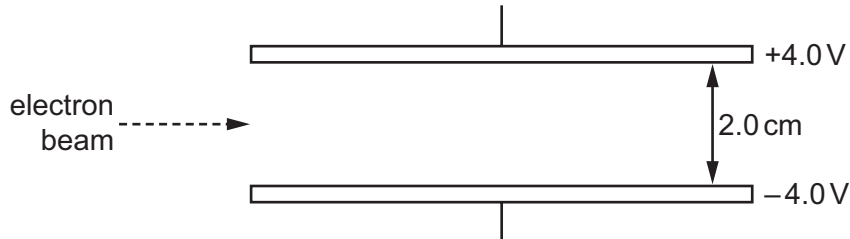

The upper plate has an electrical potential of +4.0 V, and the lower plate has an electrical potential of −4.0 V.

What is the force on each electron when between the plates?

A 3.2×10^{-17} N downwards

B 3.2×10^{-19} N upwards

C 6.4×10^{-19} N downwards

D 6.4×10^{-17} N upwards