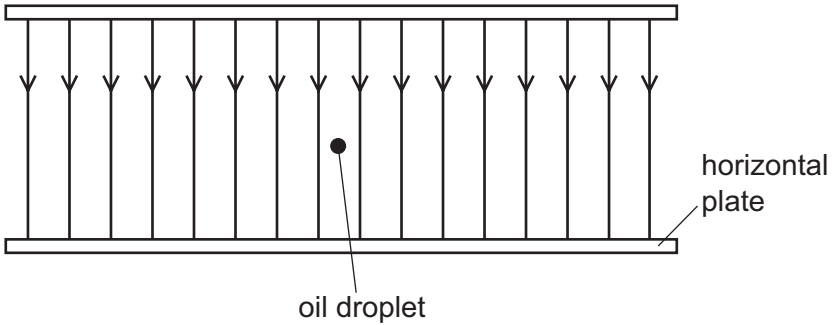
12 A tiny oil droplet with mass 6.9×10^{-13} kg is at rest in an electric field of electric field strength 2.1×10^{7} N C^{-1}, as shown.



The weight of the droplet is exactly balanced by the electrical force on the droplet.

What is the charge on the droplet?

A 3.3×10^{-20} C

B -3.3×10^{-20} C

C 3.2×10^{-19} C

D -3.2×10^{-19} C

Space for working