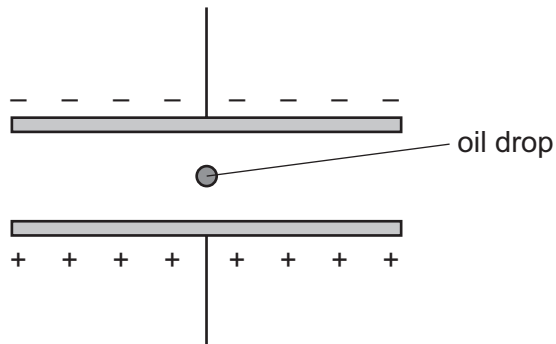


- 29 A very small oil drop of mass m carries a charge $+q$.



The potential difference across the plates is V and the separation is d .

The weight of the drop is balanced by the electric force. (Buoyancy forces may be considered to be negligible.)

Which formula gives the charge on the drop?

- A** $q = \frac{mgd}{V}$ **B** $q = \frac{mgV}{d}$ **C** $q = \frac{Vd}{mg}$ **D** $q = \frac{V}{mgd}$

- 20 Which electrical component is represented by the following symbol?