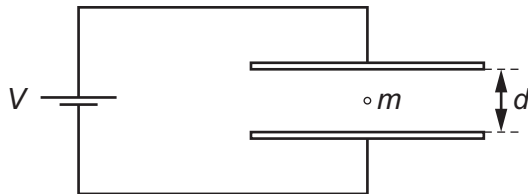**30** A charged oil drop of mass m, with n excess electrons, is held stationary in the uniform electric field between two horizontal plates separated by a distance d.

The voltage between the plates is V, the elementary charge is e and the acceleration of free fall is g.

What is the value of n?

A $\dfrac{eV}{mgd}$ **B** $\dfrac{mgd}{eV}$ **C** $\dfrac{meV}{gd}$ **D** $\dfrac{gd}{meV}$