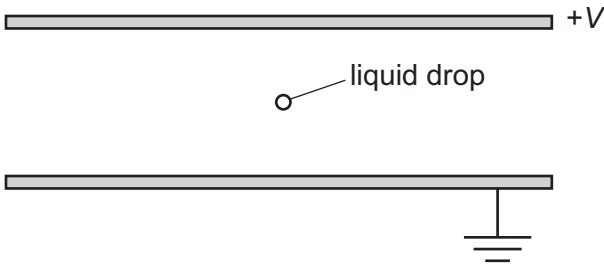


**28** The diagram shows two parallel horizontal metal plates. There is a potential difference  $V$  between the plates.



A small charged liquid drop, midway between the plates, is held in equilibrium by the combination of its weight and the electric force acting on it.

The acceleration of free fall is  $g$  and the electric field strength is  $E$ .

What is the polarity of the charge on the drop, and the ratio of charge to mass of the drop?

	polarity	$\frac{\text{charge}}{\text{mass}}$
<b>A</b>	negative	$\frac{E}{g}$
<b>B</b>	negative	$\frac{g}{E}$
<b>C</b>	positive	$\frac{E}{g}$
<b>D</b>	positive	$\frac{g}{E}$

**Space for working**