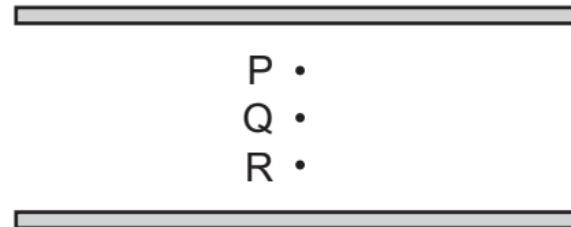


30 The diagram shows two parallel plates.

The plates are charged so that there is an electric field between them. P, Q and R are points which are $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ of the distance from the top plate to the bottom plate.



What is the electric field strength at point P?

- A the same as that at point Q
- B twice that at point R
- C half that at point R
- D one third that at point Q

31 A positive charge of 2.6×10^{-8} C is in an electric field of constant field strength $200\,000\,\text{V m}^{-1}$