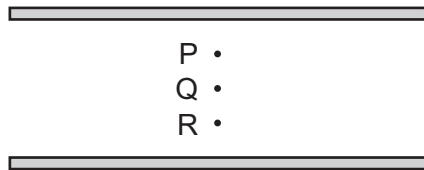


30 The diagram shows two parallel plates.

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