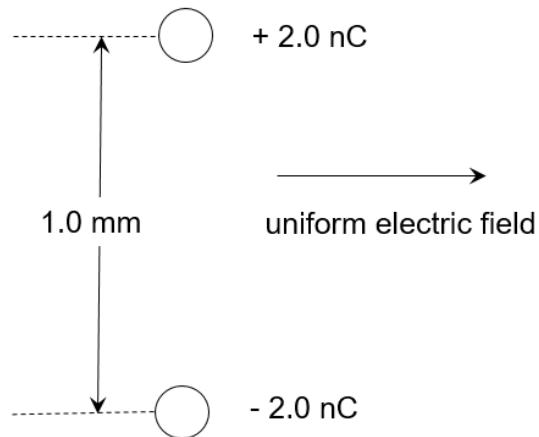


- 21 Two charges are fixed at a distance of 1.0 mm apart as shown below.

A uniform electric field with field strength 4.0 N C^{-1} is applied in the direction from left to right.



Which statement describes the net force and torque experienced by the pair of charges?

- A No net force and no torque.
- B No net force and the torque is $8.0 \times 10^{-12} \text{ N m}$ in the clockwise direction.
- C A net force of $3.6 \times 10^{-14} \text{ N}$ acts and the torque is $4.0 \times 10^{-12} \text{ N m}$ in the clockwise direction.
- D A net force of $3.6 \times 10^{-14} \text{ N}$ acts and the torque is $8.0 \times 10^{-12} \text{ N m}$ in the clockwise direction.