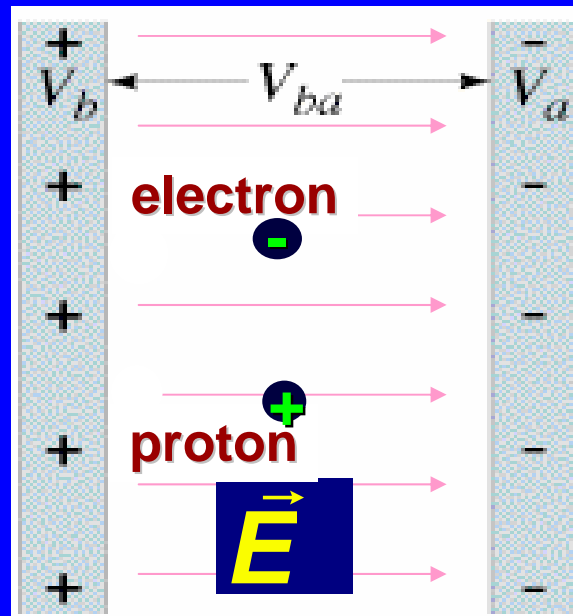




ConcepTest 23.1c Electric Potential Energy III

A **proton** and an **electron** are in a constant electric field created by oppositely charged plates. You release the **proton** from the **positive** side and the **electron** from the **negative** side. When it strikes the opposite plate, which one has more KE?

- 1) **proton**
- 2) **electron**
- 3) **both acquire the same KE**
- 4) **neither – there is no change of KE**
- 5) **they both acquire the same KE but with opposite signs**





ConceptTest 23.4 Hollywood Square

Four point charges are arranged at the corners of a square. Find the **electric field E** and the **potential V** at the **center of the square**.

1) $E = 0$ $V = 0$

2) $E = 0$ $V \neq 0$

3) $E \neq 0$ $V \neq 0$

4) $E \neq 0$ $V = 0$

5) $E = V$ regardless of the value

