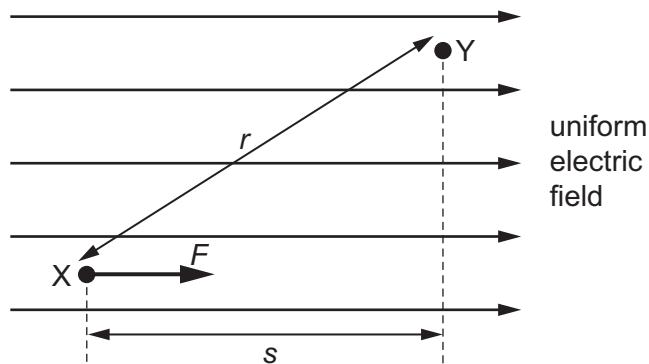


- 18 A positive charge experiences a force  $F$  when placed at point X in a uniform electric field.

The charge is then moved from point X to point Y.

Distances  $r$  and  $s$  are shown on the diagram.



What is the change in the potential energy of the charge?

- A decreases by  $Fs$
- B increases by  $Fs$
- C decreases by  $Fr$
- D increases by  $Fr$

**Space for working**