

31 Which statement about electric charges in a uniform electric field is **not** correct?

- A** Electric charges of the same magnitude, whether positive or negative, experience the same magnitude of force when placed in the same uniform electric field.
- B** The direction of the force on a positive charge placed in a uniform electric field is independent of the magnitude of the charge.
- C** The magnitude of the force on a positive charge placed in a uniform electric field is proportional to the magnitude of the electric field strength.
- D** The work done to move a positive charge a certain distance in a uniform electric field is independent of the direction of the movement.