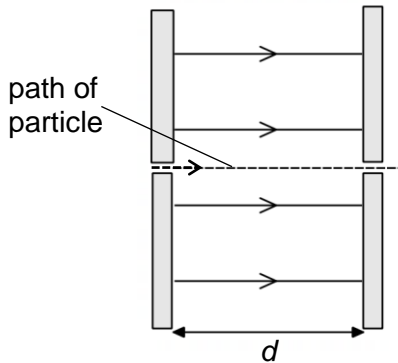


- 21** A particle of mass  $m$  and charge  $q$  is accelerated from rest in a uniform electric field between two parallel plates. After travelling a distance  $d$  between the plates, it leaves the field with a final speed  $v$ .



The electric field strength and the distance between the plates are doubled. A second particle of mass  $3m$  and charge  $3q$  is accelerated from rest between the plates.

What is the final speed of the second particle when it leaves the field?

- A**  $v$                       **B**  $2v$                       **C**  $3.5v$                       **D**  $4v$

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1. **Identify the subject and predicate.** The subject is "The committee" and the predicate is "has decided."