

**20** For an electron beam, the following quantities are known or are easily measured.

- area  $A$  when beam hits a target
- beam current  $I$
- accelerating potential difference  $V$
- elementary charge  $e$

Which expression gives the rate of arrival of electrons per unit area on the target?

**A**  $\frac{I}{eA}$

**B**  $\frac{IA}{e}$

**C**  $\frac{V}{eA}$

**D**  $\frac{Ve}{A}$

