

19 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 on electron 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 $\frac{Ve}{A}$