

**32** The current  $I$  in a metallic conductor of cross-sectional area  $A$  is given by

$$I = Anve$$

where  $e$  is the elementary charge and  $v$  is the mean drift velocity of the conduction electrons.

What is represented by the letter  $n$  in the equation?

- A** density of conduction electrons
- B** number of conduction electrons per unit time
- C** number of conduction electrons per unit volume
- D** volume of conduction electrons