

- 32 An electric current  $I$  is given in the list of formulae on page 3 as  $I = Anvq$ .

What do each of the symbols represent for an electric current in a metal wire?

	$A$	$n$	$v$	$q$
<b>A</b>	area of cross-section	number of free electrons	voltage	charge of each molecule
<b>B</b>	area of cross-section	number of free electrons per unit volume	average drift speed of electrons	charge of each electron
<b>C</b>	current	number of free electrons	average drift speed of electrons	charge of each molecule
<b>D</b>	current	number of free electrons per unit volume	voltage	charge of each electron