

- 1 The mobility  $\mu$  of electrons travelling through a metal conductor can be calculated using the equation

$$\mu = \left( \frac{e}{m} \right) \tau$$

where  $e$  is the charge on an electron and  $m$  is its mass. The average time between the collisions of an electron with the atoms in the metal is  $\tau$ .

What are the SI base units of  $\mu$ ?

A C s kg<sup>-1</sup>

B C s kg

C A s<sup>2</sup> kg<sup>-1</sup>

D A s<sup>-2</sup> kg<sup>-1</sup>