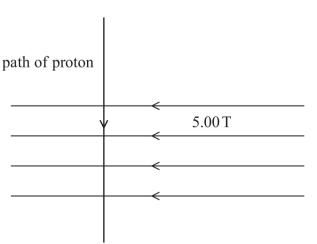
9 A proton travelling at speed v enters a magnetic field of magnetic flux density 5.00 T, as shown.



A force of  $1.20 \times 10^{-11} \, \text{N}$  is exerted on the proton.

Which of the following gives the speed of the proton in m s<sup>-1</sup>?

$$\square \quad \mathbf{C} \quad \frac{5.00 \times 1.67 \times 10^{-27}}{1.20 \times 10^{-11}}$$

(Total for Question 9 = 1 mark)