9 A proton and an electron have equal kinetic energies. The speed of the proton is v.

The mass of a proton is 2000 times greater than the mass of an electron.

Which of the following expressions gives the speed of the electron?

☒ **A** $\sqrt{2000} \times v$

☒ **B** $\dfrac{v}{\sqrt{2000}}$

☒ **C** $\dfrac{v}{2000}$

☒ **D** $2000 \times v$

(Total for Question 9 = 1 mark)