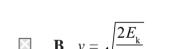**2** The velocity v of a non-relativistic particle can be expressed in terms of combinations of the following quantities: kinetic energy E_k, momentum p and mass m.

Which of the following expressions is correct?

☒ **A** $v = \dfrac{p^2}{m}$

☒ **B** $v = \sqrt{\dfrac{2E_k}{m}}$

☒ **C** $v = \dfrac{E_k}{2p}$

☒ **D** $v = \dfrac{2E_k}{pm}$

(Total for Question 2 = 1 mark)