

- 2 A particle of mass m has momentum p and kinetic energy E_k .
A second particle of mass $m/2$ has momentum $2p$.

What is the kinetic energy of the second particle?

- ☐ A $E_k/8$
- ☐ B $E_k/2$
- ☐ C $2E_k$
- ☐ D $8E_k$

(Total for Question 2 = 1 mark)