

- 3 A particle of mass m has kinetic energy E_k and momentum p . A second particle of mass $2m$ has kinetic energy $2E_k$.
Both particles are non-relativistic.

Which of the following is equal to the momentum of the second particle?

- ☐ A $\sqrt{2}p$
- ☐ B p
- ☐ C $2p$
- ☐ D $4p$

(Total for Question 3 = 1 mark)