

9 An object of mass  $m$  has momentum  $p$  and kinetic energy  $E$ .

Which of the following is the mass of an object with momentum  $2p$  and kinetic energy  $4E$ ?

☐ A  $\frac{1}{2}m$

☐ B  $m$

☐ C  $2m$

☐ D  $4m$

(Total for Question 9 = 1 mark)