Question number	Answer	Mark
2	**The only correct answer is D because $E_K = p^2 / 2m$ and doubling momentum increase E_K by a factor of 4 and halving the mass increase E_K by a factor of 2, so the overall change is an increase by a factor of 8.** A $E_K = p^2 / 2m$ and doubling momentum increase E_K by a factor of 4 and halving the mass increase E_K by a factor of 2, so the overall change is an increase by a factor of 8, not a decrease by a factor of 8 B $E_K = p^2 / 2m$ and doubling momentum increase E_K by a factor of 4 and halving the mass increase E_K by a factor of 2, so the overall change is an increase by a factor of 8, not a decrease by a factor of 2 C $E_K = p^2 / 2m$ and doubling momentum increase E_K by a factor of 4 and halving the mass increase E_K by a factor of 2, so the overall change is an increase by a factor of 8, not an increase by a factor of 2	**(1)**