

**4** Muons created in the upper atmosphere can travel towards the Earth's surface at speeds close to the speed of light. Changes to the mass and average lifetime of the muons can then be observed.

Which row of the table describes these changes when muons travel at speeds close to the speed of light?

	<b>Mass</b>	<b>Average lifetime</b>
<input type="checkbox"/> <b>A</b>	increases	increases
<input type="checkbox"/> <b>B</b>	increases	decreases
<input type="checkbox"/> <b>C</b>	decreases	increases
<input type="checkbox"/> <b>D</b>	decreases	decreases

**(Total for Question 4 = 1 mark)**