

- 4 A student measures the time  $t$  taken for a ball bearing to fall different measured distances  $s$  from rest. The student uses his measurements to plot a graph with a gradient equal to the acceleration due to gravity  $g$ .

Which row of the table shows a graph with a gradient equal to  $g$ ?

	<b>y-axis</b>	<b>x-axis</b>
<input type="checkbox"/> A	$s$	$t^2$
<input type="checkbox"/> B	$2s$	$t^2$
<input type="checkbox"/> C	$t^2$	$s$
<input type="checkbox"/> D	$t^2$	$2s$

(Total for Question 4 = 1 mark)