

- 6 A stone is thrown horizontally from the edge of a cliff and falls towards the sea below. The initial speed of the stone is v .

How far does the stone travel horizontally and vertically in a time interval t after the stone is thrown?

Neglect air resistance.

	horizontally	vertically
A	$\frac{1}{2}vt$	$\frac{1}{2}gt^2$
B	$\frac{1}{2}vt^2$	gt^2
C	vt	$\frac{1}{2}gt^2$
D	vt	gt^2