

- 6 A ball is projected horizontally and falls under gravity. After time t it has travelled a horizontal distance x and fallen a vertical distance y . Air resistance is negligible.

Which row correctly states the distance travelled horizontally and vertically after time $2t$?

	horizontally	vertically
A	$2x$	$2y$
B	$2x$	$4y$
C	$4x$	$2y$
D	$4x$	$4y$

- 7 Masses of 2.0 kg and 3.0 kg hang from a light inextensible cord passing over a pulley.