

- 9 A body of mass  $m$ , moving at velocity  $v$ , collides with a stationary body of the same mass and sticks to it.

Which row describes the momentum and kinetic energy of the two bodies after the collision?

	momentum	kinetic energy
<b>A</b>	$mv$	$\frac{1}{4}mv^2$
<b>B</b>	$mv$	$\frac{1}{8}mv^2$
<b>C</b>	$2mv$	$\frac{1}{2}mv^2$
<b>D</b>	$2mv$	$mv^2$

**Space for working**