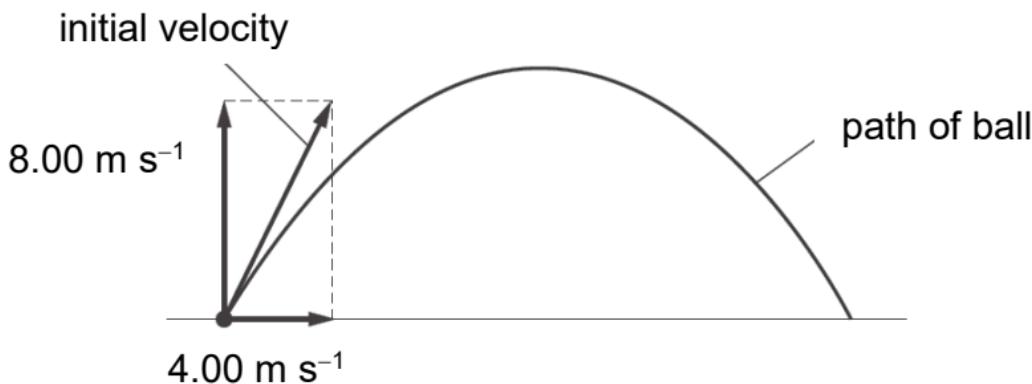


- 3 An astronaut on the Moon, where there is no air resistance, throws a ball. The ball's initial velocity has a vertical component of 8.00 m s^{-1} and a horizontal component of 4.00 m s^{-1} , as shown.



The acceleration of free fall on the Moon is 1.62 m s^{-2} .

What will be the speed of the ball 9.00 s after being thrown?

A 6.60 m s^{-1}

B 7.70 m s^{-1}

C 10.6 m s^{-1}

D 14.6 m s^{-1}

- 4 A uniform square metal sheet of length x is cut into an 'L' shape