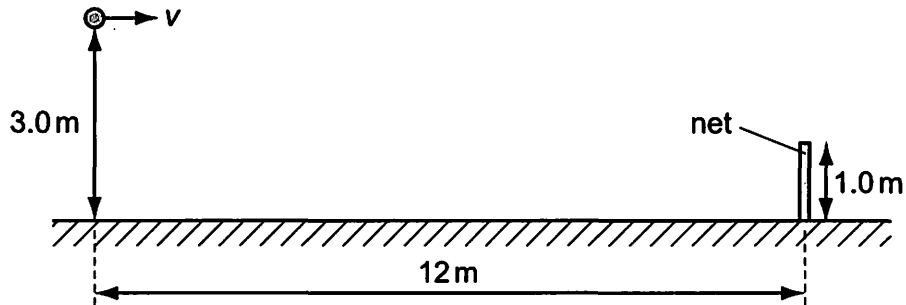


- 5 In a tennis match, a ball is hit horizontally with a speed v , as shown in the diagram.



The bottom of the ball is initially 3.0 m above the ground and a horizontal distance of 12 m from the net.

The ball just clears the net, which is 1.0 m high.

What is the value of v ? (Neglect the effects of air resistance.)

- A 16 ms^{-1} B 19 ms^{-1} C 30 ms^{-1} D 38 ms^{-1}