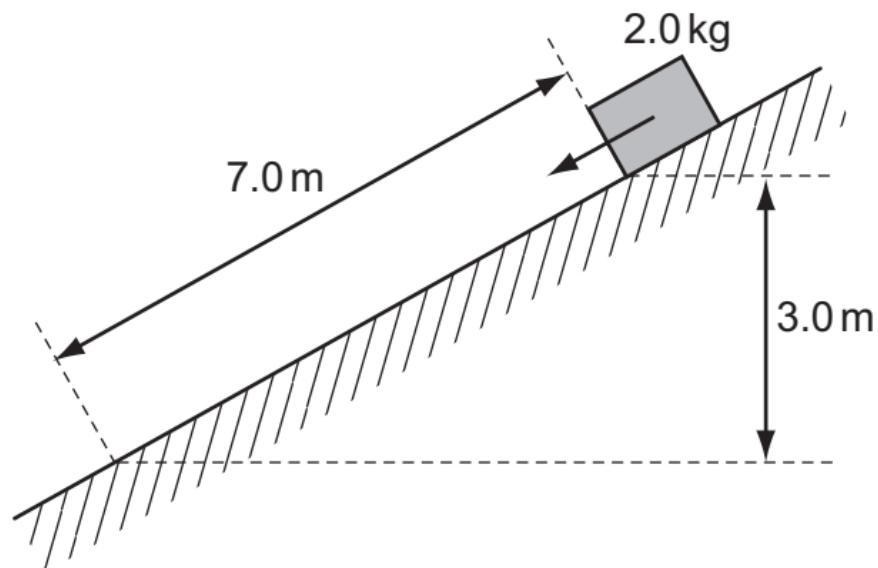


- 15 A block of mass 2.0 kg is released from rest on a slope. It travels 7.0 m down the slope and falls a vertical distance of 3.0 m. The block experiences a frictional force parallel to the slope of 5.0 N.



What is the speed of the block after falling this distance?

A 4.9 ms^{-1}

B 6.6 ms^{-1}

C 8.6 ms^{-1}

D 10.1 ms^{-1}

- 16 A man has a mass of 80 kg. He ties himself to one end of a rope which passes over a single fixed