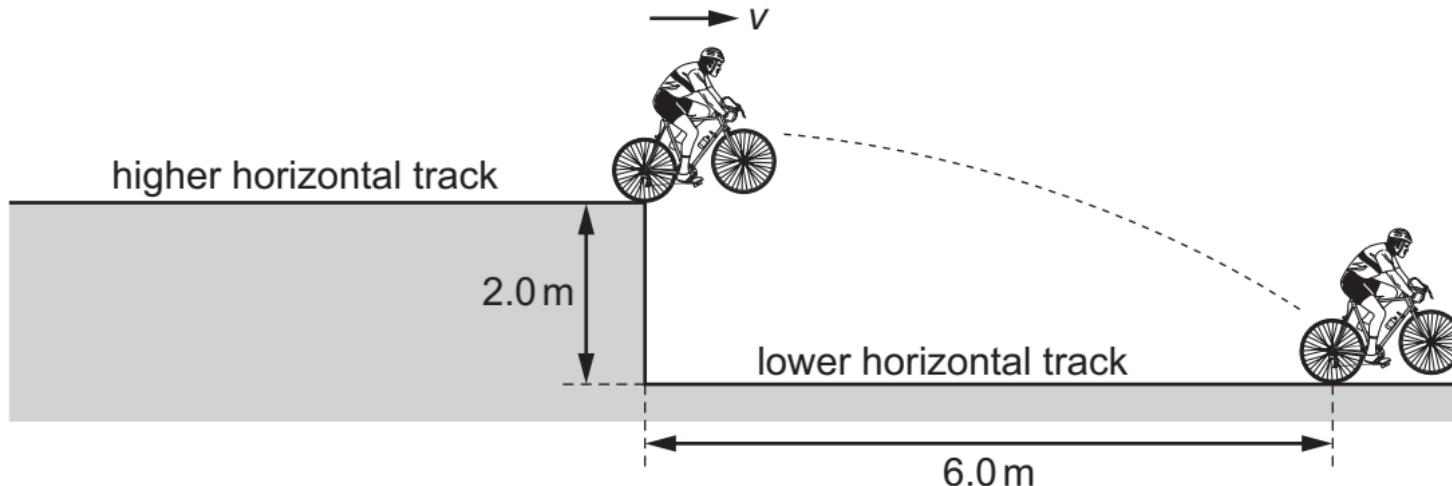


- 6 A cyclist pedals along a raised horizontal track. At the end of the track, he travels horizontally into the air and onto a track that is vertically 2.0 m lower.



The cyclist travels a horizontal distance of 6.0 m in the air. Air resistance is negligible.

What is the horizontal velocity v of the cyclist at the end of the higher track?

A 6.3 ms^{-1}

B 9.4 ms^{-1}

C 9.9 ms^{-1}

D 15 ms^{-1}