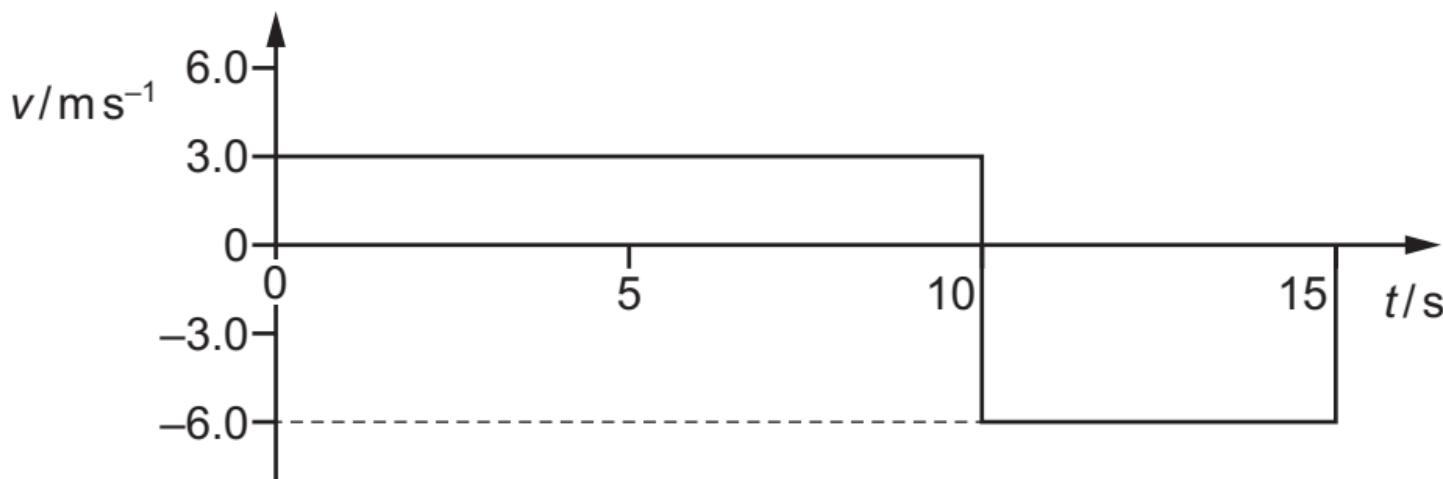


6 A radio-controlled toy car travels along a straight line for a time of 15 s.

The variation with time t of the velocity v of the car is shown below.



What is the average velocity of the toy car for the journey shown by the graph?

A -1.5 ms^{-1}

B 0.0 ms^{-1}

C 4.0 ms^{-1}

D 4.5 ms^{-1}

7 Two train carriages, each of mass 5000 kg, roll toward one another on a level track. One is