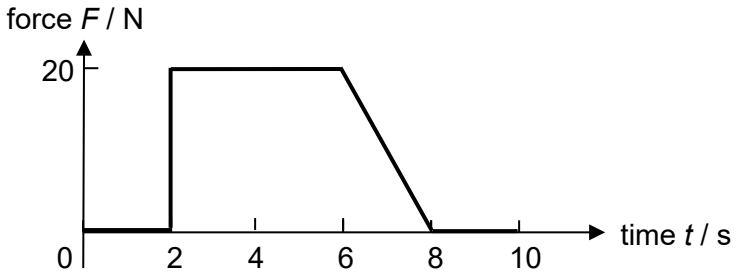
3

The graph shows the variation with time t of a force F acting on a 2.0 kg mass.



What is the change in the speed of the body during this period of 10 s?

A

5.0 m s^{-1}

B

50 m s^{-1}

C

90 m s^{-1}

D

100 m s^{-1}