

13 A mass of 2.0 kg moves at a speed of 3.0 ms^{-1} . The mass is acted upon by a force of 10 N .
What is the minimum distance over which the force must act to increase the speed of the mass
by 1.0 ms^{-1} ?

A 0.10 m

B 0.70 m

C 1.0 m

D 1.6 m