

- 10** A supermarket trolley, total mass 30 kg, is moving at 3.0 m s^{-1} . A retarding force of 60 N is applied to the trolley for 0.50 s in the opposite direction to the trolley's initial velocity.

What is the trolley's new velocity after the application of the force?

A 1.0 m s^{-1}

B 1.5 m s^{-1}

C 2.0 m s^{-1}

D 2.8 m s^{-1}

Space for working