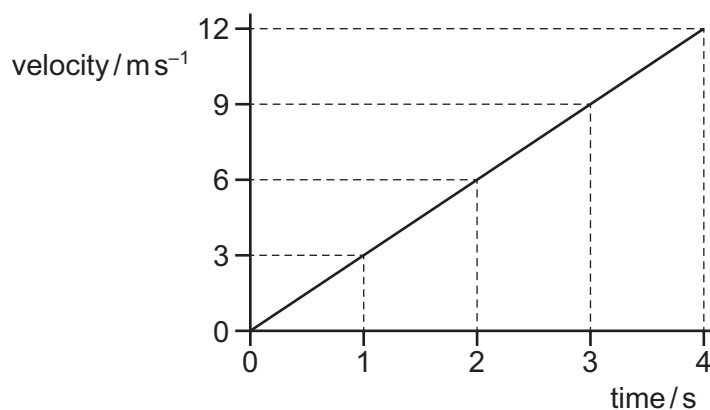
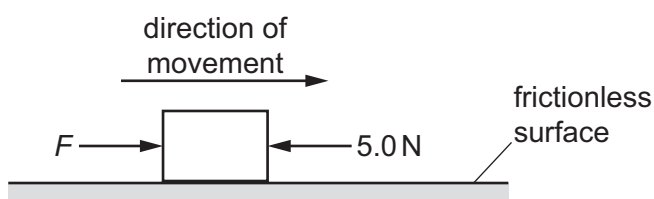


- 5 The diagram shows a velocity–time graph for an object moving in a straight line.

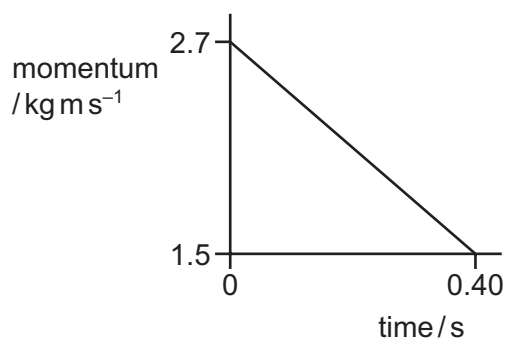


What is the displacement during the last 2 seconds of the motion?

- A** 6 m                      **B** 12 m                      **C** 18 m                      **D** 24 m
- 6 A block is moving along a horizontal frictionless surface. A constant force  $F$  and a constant resistive force of 5.0 N act on the block as it is moving in the direction of the force  $F$ , as shown.



The graph shows the variation with time of the momentum of the block.



What is the magnitude of force  $F$ ?

- A** 2.0 N                      **B** 3.0 N                      **C** 5.0 N                      **D** 8.0 N