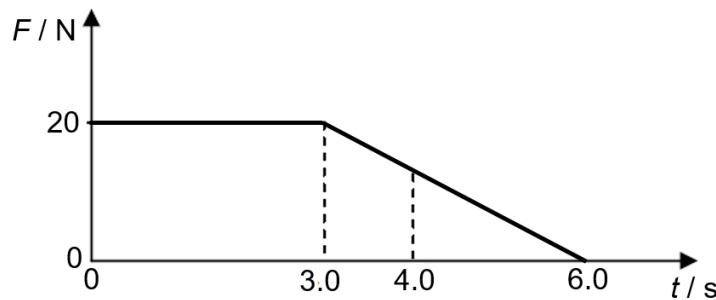


- 3** An object of mass 20 kg moves along a straight line on a smooth horizontal surface. A force F acts on the object in its direction of motion. A graph of F against time t is shown below.



If the velocity of the object at $t = 4.0$ s is 4.0 m s^{-1} , what is its velocity at $t = 6.0$ s?

- A** 3.0 m s^{-1} **B** 3.3 m s^{-1} **C** 4.7 m s^{-1} **D** 5.0 m s^{-1}