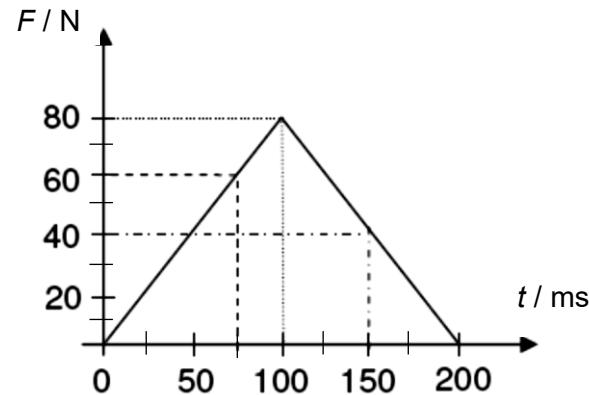


- 7 The variation of the force  $F$  with time  $t$  acting on a body of mass 200 g is as shown in the graph below.



Given that the velocity of the body at  $t = 75$  ms is  $15 \text{ m s}^{-1}$ , what is the velocity of the body at  $t = 150$  ms?

- A**  $7.8 \text{ m s}^{-1}$       **B**  $30 \text{ m s}^{-1}$       **C**  $39 \text{ m s}^{-1}$       **D**  $55 \text{ m s}^{-1}$

