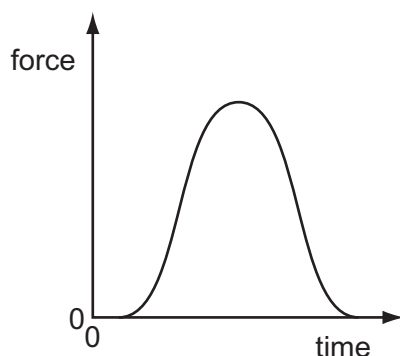
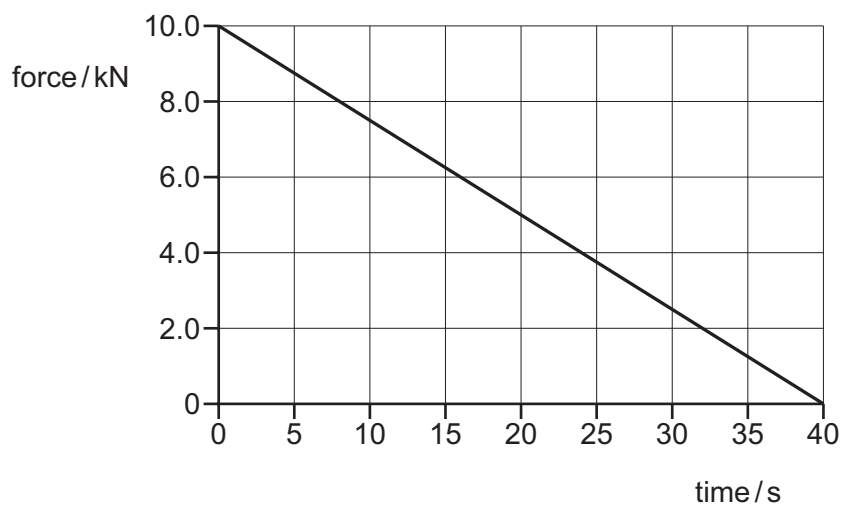


- 10 A golf ball is hit by a club. The graph shows the variation with time of the force exerted on the ball by the club.



Which quantity, for the time of contact, **cannot** be found from the graph?

- A the average force on the ball
 - B the change in momentum of the ball
 - C the contact time between the ball and the club
 - D the maximum acceleration of the ball
- 11 A glider of mass 1500 kg is launched from rest on a straight and level track using a catapult. The graph shows the variation with time of the resultant force.



What is the speed of the glider when the resultant force acting on it reaches zero?

- A 133 ms^{-1}
 - B 200 ms^{-1}
 - C 250 ms^{-1}
 - D 267 ms^{-1}
- 12 Which statement about a ball that strikes a tennis racket and rebounds is **always** correct?
- A The total kinetic energy of the ball is conserved.
 - B The total kinetic energy of the system is conserved.
 - C The total momentum of the ball is conserved.
 - D The total momentum of the system is conserved.