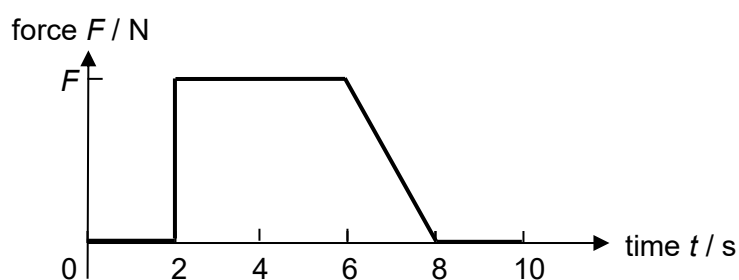


- 5 The graph shows the variation with time  $t$  of a braking force  $F$  acting on a 2.0 kg mass. The mass decelerates from an initial speed of  $30 \text{ m s}^{-1}$  to a final speed of  $5.0 \text{ m s}^{-1}$ .



What is the maximum force  $F$  exerted on the mass during this period of 10 s?

**A** 5.0 N

**B** 10 N

**C** 20 N

**D** 50 N

