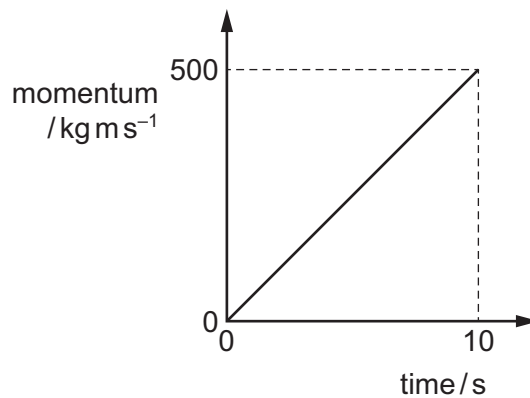


- 9 An object of mass 4.0 kg moving with a speed of 3.0 ms^{-1} strikes a stationary object in an inelastic collision.

Which statement is correct?

- A After collision, the total kinetic energy is 18 J .
 - B After collision, the total kinetic energy is less than 18 J .
 - C Before collision, the total kinetic energy is 12 J .
 - D Before collision, the total kinetic energy is less than 12 J .
- 10 The graph shows how the momentum of a motorcycle changes with time.



What is the resultant force on the motorcycle?

- A 50 N B 500 N C 2500 N D 5000 N

Space for working