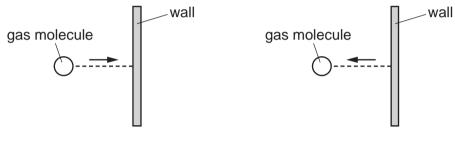
1 An object of mass 50 kg accelerates from a velocity of 2.0 m/s to a velocity of 10 m/s in the same direction.

What is the impulse provided to cause this acceleration?

A 250Ns B 400Ns C 850Ns D 2500Ns

2 A gas molecule strikes the wall of a container. The molecule rebounds with the same speed.



before hitting the wall

after hitting the wall

What happens to the kinetic energy and what happens to the momentum of the molecule?

	kinetic energy	momentum
A	changes	changes
в	changes	stays the same
с	stays the same	changes
D	stays the same	stays the same

- 3 Which quantity is measured in newton seconds (Ns)?
 - A impulse
 - B moment
 - **C** power
 - D work done