**1A Momentum in One Dimension**

Momentum:

Impulse:

1. Find the magnitude of the momentum of:
2. A cricket ball of mass 400g moving at 18ms-1
3. A lorry of mass 5 tonnes moving at 12ms-1
4. A body of mass 2kg is initially at rest on a smooth horizontal plane. A horizontal force of magnitude 4.5N acts on the body for 6s. Find:
5. The magnitude of the impulse given to the body by the force
6. The final speed of the body
7. A ball of mass 0.2kg hits a vertical wall at right angles with a speed of 3.5ms-1. The ball rebounds from the wall with speed 2.5ms-1. Find the magnitude of the impulse the ball exerts on the wall.