


GCSE Revision Buddy

Momentum Worksheet

$$p = mv$$

momentum (kgm/s) = mass (kg) × velocity (m/s)



1. A shopping trolley rolls down a gentle slope at a steady speed of 1.2 m/s. The shopping trolley has a mass of 15 kg. Calculate the momentum of the shopping trolley.
2. A bus travels down a road with a speed of 15 m/s. The bus has a momentum of 210,000 kgm/s. Calculate the mass of the bus.
3. Drones are used for photography. A drone has a momentum of 8 kgm/s and a mass of 400 g. Calculate the velocity of the drone.