

7.2 Linear Momentum and Collisions

- What is the value of the momentum of a 10 kg ball running down a bowling alley at a speed of 5 ms^{-1} ?
50 Ns
- The momentum of an object of mass 43.5kg is 200Ns, what is its speed?
4.6 ms^{-1}
- A railway truck of mass 3000kg moving at a speed of 2.0 ms^{-1} collides with a stationary truck. The two trucks stick together and move off after the collision at a speed of 1.2 ms^{-1} . What is the mass of the second truck?
2000 kg
- A skater of mass 60kg and velocity 3 ms^{-1} collides with a stationary skater of mass 50kg. The two skaters join together and move off in the same direction. What is their velocity after impact?
1.64 ms^{-1}
- A bullet of mass 5g is shot from a rifle at a speed of 200 ms^{-1} . The rifle has a mass of 4kg. Calculate the velocity at which the rifle recoils.
-0.25 ms^{-1}
- A rocket of mass 500kg prepares to dock with a space station. The rocket is travelling at a constant speed of 0.5 ms^{-1} relative to the space station, which has a mass of 3500kg. Calculate the change in the velocity of the space station when the rocket docks with it.
0.0625 ms^{-1}
- $8.1 \times 10^5 \text{ m s}^{-1}$ in the original direction of travel (2 marks)
- Momentum of cue ball = $0.20 \times 1.5 = 0.30 \text{ (kg m s}^{-1}\text{)}$ (1 mark)
Momentum of red ball = $0.18 \times -0.5 = -0.09 \text{ (kg m s}^{-1}\text{)}$ (1 mark)
Total momentum = 0.21 (1 mark) kg m s^{-1} (1 mark)
 - $p = m v = 0.2 \times (-)0.5$ (1 mark)
 $= -0.1 \text{ kg m s}^{-1}$ (1 mark)
 - Total momentum = momentum of cue ball + momentum of red ball

Momentum of red ball = total momentum – momentum of cue ball

Momentum of red ball = $0.21 \text{ kg m s}^{-1} - 0.1 \text{ kg m s}^{-1} = 0.31 \text{ kg m s}^{-1}$ (to the right) (1 mark)
 $v = \frac{p}{m} = \frac{0.31}{0.18} = 1.72 \text{ m s}^{-1}$ (to the right) (1 mark)
- $(5.0 \text{ kg}) (20.0 \text{ m s}^{-1}) + (0) = (5.0 \text{ kg}) (-6.67 \text{ m s}^{-1}) + (10.0 \text{ kg}) v_2$ (1 mark)

Momentum 7 Practice Page Answers

L Cohen

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the L Cohen text.

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