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

3. 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 1.2ms⁻¹. What is the mass of the second truck?

2000 kg

4. A skater of mass 60kg and velocity 3ms⁻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

 A bullet of mass 5g is shot from a rifle at a speed of 200ms⁻¹. The rifle has a mass of 4kg. Calculate the velocity at which the rifle recoils.

-0.25 ms⁻¹

6. A rocket of mass 500kg prepares to dock with a space station. The rocket is travelling at a constant speed of 0.5ms '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

7. 8.1 × 10⁵ m s⁻¹ in the original direction of travel

(2 marks)

- 8. a Momentum of cue ball = $0.20 \times 1.5 = 0.30 \, (\text{kg m s}^{-1})$ (1 mark) Momentum of red ball = $0.18 \times -0.5 = -0.09 \, (\text{kg m s}^{-1})$ (1 mark) Total momentum = $0.21 \, (1 \, \text{mark}) \, \text{kg m s}^{-1} \, (1 \, \text{mark})$
 - b $\rho = m v = 0.2 \times (-)0.5$ (1 mark) = -0.1 kg m s⁻¹ (1 mark)
 - c 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)

$$v = \frac{P}{m} = \frac{0.31}{0.18} = 1.72 \,\text{m s}^{-1} \text{ (to the right)}$$
 (1 mark)

9. a $(5.0 \text{ kg}) (20.0 \text{ m s}^{-1}) + (0) = (5.0 \text{ kg}) (-6.67 \text{ m s}^{-1}) + (10.0 \text{ kg}) v_2$

(I mark

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S Ben Porath

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