

- 3 Object P travels at 2.0 m s^{-1} and collides elastically with object Q, which is initially at rest.

After the collision, object P rebounds with a speed of 0.50 m s^{-1} .

What is the ratio $\frac{\text{mass of P}}{\text{mass of Q}}$?

A $\frac{1}{3}$

B $\frac{3}{5}$

C $\frac{5}{3}$

D $\frac{3}{1}$

- 4 A spherical buoy is attached to the sea bed by a rope, as shown. The buoy is in equilibrium.