

- 4** A 20 g object travelling to the right at 8.0 m s^{-1} collides head-on with a 10 g object travelling to the left at 7.0 m s^{-1} .

What is the loss in kinetic energy for both objects during the collision if the collision is perfectly inelastic?

A 0.75 J

B 3.0 J

C 0.75 kJ

D 3.0 kJ