

- 5** 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} .

Determine the loss in kinetic energy for both the 20 g and 10 g objects during the collision if the collision was perfectly inelastic.

A 3.0 kJ

B 0.75 kJ

C 3.0 J

D 0.75 J