

- 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?

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|------------------|-----------------|
| A 0.75 J | B 3.0 J |
| C 0.75 kJ | D 3.0 kJ |