

16 In which situation is the least amount of energy transferred?

- A** A student and a motorcycle of total mass 80 kg come to rest from a speed of 2.0 m s^{-1} .
- B** A student of mass 50 kg falls a vertical distance of 2.0 m.
- C** A student pushes a car with a horizontal force of 70 N for a horizontal distance of 2.0 m.
- D** A student switches on a 70 W lamp for 20 s.

17 What is the kinetic energy of a 2.0 kg object moving at 3.0 m s⁻¹?