

**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  $2.0\text{ m s}^{-1}$ .
- 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.