

**8** Which statement about work done is correct?

- A** More work is done to change the speed of an object from  $2 \text{ m s}^{-1}$  to  $3 \text{ m s}^{-1}$  than to change the speed of the same object from  $1 \text{ m s}^{-1}$  to  $2 \text{ m s}^{-1}$
- B** No work is done by a force that slows a moving object.
- C** The same amount of work is done when lifting an object 1 m at a constant velocity and pulling the same object 1 m across a smooth horizontal surface at a constant velocity.
- D** When an object is dropped, the force of gravity does no work.