

**18** A body travelling with a speed of  $20 \text{ m s}^{-1}$  has kinetic energy  $E_k$ .

If the speed of the body is increased to  $80 \text{ m s}^{-1}$ , what is its new kinetic energy?

**A**  $4E_k$

**B**  $8E_k$

**C**  $12E_k$

**D**  $16E_k$

**Space for working**