

**18** The kinetic energy  $E_k$  of an object of mass  $m$  moving at speed  $v$  is given by the equation shown.

$$E_k = \frac{1}{2} mv^2$$

Which equation is **not** used in the derivation of this equation?

- A**  $F = ma$       **B**  $s = vt$       **C**  $v^2 = u^2 + 2as$       **D**  $W = Fs$