

**12** A body of mass  $m$  moves at constant speed  $v$  for a distance  $s$  against a constant  $F$ . What is the power required to sustain this motion?

**A**  $mv$

**B**  $\frac{1}{2}mv^2$

**C**  $\frac{1}{2}Fs$

**D**  $Fv$