

- 15** In a horizontal spring-mass system, a mass m oscillates with a frequency f and an amplitude x . The total energy of the oscillating system is E .

What is the total energy of a spring-mass system with a mass $0.50\,m$, frequency $3.0\,f$ and amplitude $0.40\,x$?

- A** $0.24E$ **B** $0.60E$ **C** $0.72E$ **D** $1.8E$

- 16** Ripples on the surface of a pond spread out in circles from the point of an initial disturbance