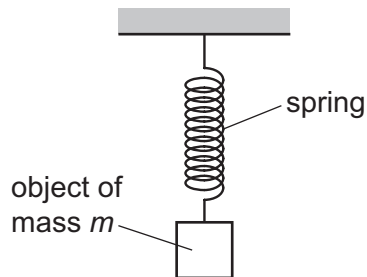


- 3 An object of mass m is suspended by a spring from a fixed point.



The spring has spring constant k . The object is set into vertical oscillations of period T .

Which equation for T is homogeneous with respect to base units?

A $T = 2\pi \left(\frac{k}{m} \right)$ **B** $T = 2\pi \left(\frac{m}{k} \right)$ **C** $T = 2\pi \sqrt{\frac{k}{m}}$ **D** $T = 2\pi \sqrt{\frac{m}{k}}$