

18 A body moves with simple harmonic motion and makes n complete oscillations in one second.

What is its angular frequency?

A $n \text{ rad s}^{-1}$

B $\frac{1}{2} \text{ rad s}^{-1}$

C $2\pi n \text{ rad s}^{-1}$

D $\frac{2\pi}{n} \text{ rad s}^{-1}$