

- 5 A mass oscillates with simple harmonic motion with a frequency of 0.5 Hz.
The amplitude of the oscillation is 0.3 m.

Which of the following is an expression for the maximum velocity in ms^{-1} of the mass?

- ☐ A $\left(\frac{2\pi}{0.5}\right) \times 0.3$
- ☐ B $\left(\frac{2\pi}{0.5}\right) \times 0.15$
- ☐ C $2\pi \times 0.5 \times 0.3$
- ☐ D $2\pi \times 0.5 \times 0.15$

(Total for Question 5 = 1 mark)