9 An object oscillates with simple harmonic motion. The period of oscillation is 0.55 s and the amplitude is 0.25 m.

Which of the following shows a correct calculation of the maximum velocity of the object?

☒ **A** $2\pi \times 0.55 \times 0.25$

☒ **B** $\dfrac{2\pi}{0.55} \times 0.25$

☒ **C** $(2\pi \times 0.55)^2 \times 0.25$

☒ **D** $\left(\dfrac{2\pi}{0.55}\right)^2 \times 0.25$

(Total for Question 9 = 1 mark)