

- 15** A particle oscillates with simple harmonic motion along a straight line with amplitude A . When the displacement of the particle from its equilibrium position is $\frac{A}{2}$, its speed is u .

What is the speed of the particle when it passes the equilibrium position?

A $\frac{2}{\sqrt{3}} u$

B $\sqrt{2} u$

C $\sqrt{3} u$

D $4 u$