2 A satellite of mass *m* orbits the Earth with speed *v*.

What is the speed of a satellite of mass 2*m* orbiting at the same distance from the Earth?

☒ **A** $\frac{v}{2}$

☒ **B** *v*

☒ **C** $v\sqrt{2}$

☒ **D** 2*v*

(Total for Question 2 = 1 mark)