**23** The diagram illustrates the position of particles in a progressive sound wave at one instant in time.



The speed of the wave is $v$. P and Q are two points in the wave a distance $L$ apart.

What is an expression for the frequency of the wave?

**A** $\dfrac{v}{2L}$ **B** $\dfrac{v}{L}$ **C** $\dfrac{2v}{L}$ **D** $\dfrac{L}{v}$