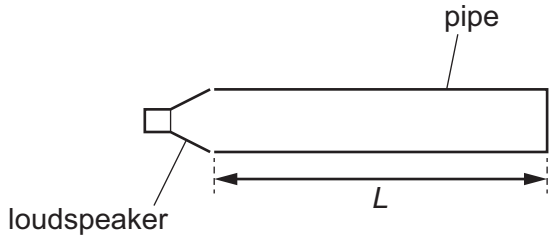
26 A pipe of length L is open at one end and closed at the other end. A loudspeaker is at the open end and emits a sound wave into the pipe.



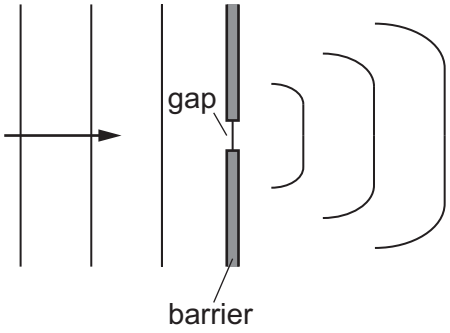
When a stationary wave is formed, there is an antinode at the open end of the pipe.

Which wavelength of sound could be used to produce a stationary wave?

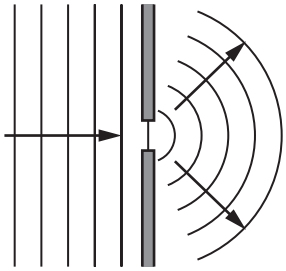
A $\frac{2L}{3}$ **B** L **C** $\frac{4L}{3}$ **D** $2L$

27 Which diagram best shows how water waves diffract when they pass through a gap in a barrier?

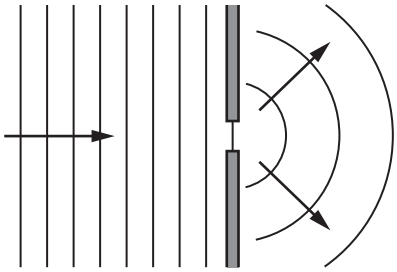
A



B



C



D