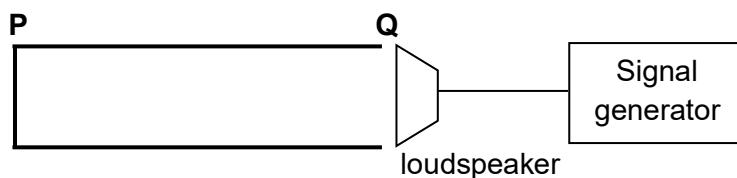


- 14** A signal generator is connected to a loudspeaker held near end **Q** of the tube **PQ**, of length 0.65 m. The speed of sound is  $330 \text{ m s}^{-1}$ .



Frequency of the signal generator is increased from zero until a loud sound is heard for the third time.

What is the frequency of the signal generator at this instant?

- A** 381 Hz                      **B** 508 Hz                      **C** 635 Hz                      **D** 761 Hz