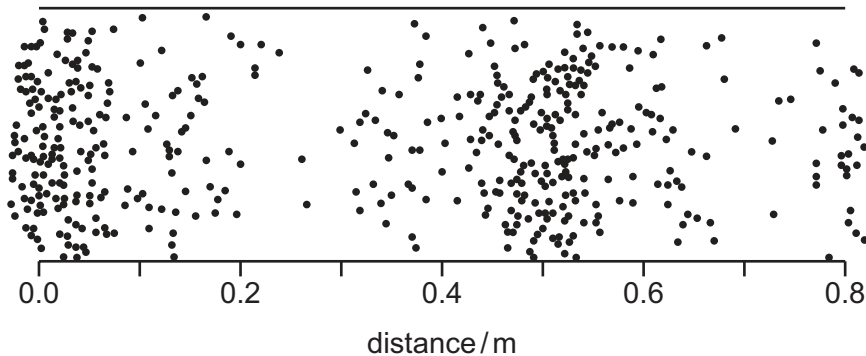


**23** When a guitar string is plucked, it causes a longitudinal sound wave in the air, as shown.



The speed of sound in the air is  $340 \text{ m s}^{-1}$ .

What is the approximate frequency of the sound wave shown?

**A** 430 Hz

**B** 680 Hz

**C** 1100 Hz

**D** 1400 Hz

**24** The sound from a loudspeaker placed above a tube causes resonance of the air in the tube