

- 21** A tube of fixed length can be used, in an instrument such as a bugle, to produce sounds of different frequencies. The musician will produce a node at one end and an antinode at the opposite end of the tube, with a varying number of nodes along the tube.

What is a possible series of frequencies for such an instrument?

- A** 50 Hz, 75 Hz, 100 Hz, 125 Hz
- B** 50 Hz, 100 Hz, 150 Hz, 200 Hz
- C** 50 Hz, 150 Hz, 250 Hz, 350 Hz
- D** 50 Hz, 250 Hz, 450 Hz, 650 Hz