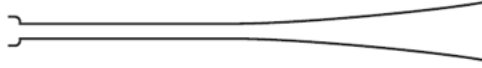


- 16** A musical instrument called a bugle is a long tube with a mouthpiece at one end. The other end is an open end and flared, as shown.



A musician maintains stationary sound waves with a node at the mouthpiece and an antinode at the other end. The lowest frequency of sound that the bugle can produce is 92 Hz.

Which different frequencies of sound can be produced by the bugle?

- A** 92 Hz, 138 Hz, 184 Hz, 230 Hz, 276 Hz
- B** 92 Hz, 184 Hz, 276 Hz, 368 Hz, 460 Hz
- C** 92 Hz, 276 Hz, 460 Hz, 644 Hz, 828 Hz
- D** 92 Hz, 276 Hz, 828 Hz, 2484 Hz, 7452 Hz