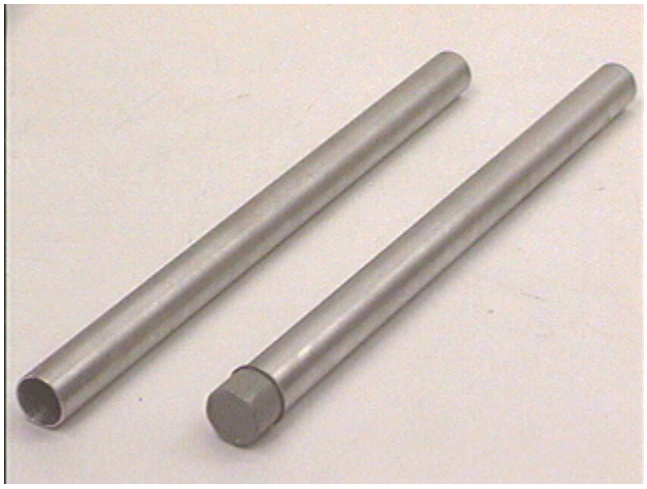
Question #160

Shown in the photograph below are two aluminum tubes. They have the same length, but the tube on the right has a cap on one end. Physicists would say the the tube at the left is "open" and the tube at the right is "closed." If you click your mouse on the photograph below you will hear Gwen creating a musical tone by blowing across one end of the open tube.



Now suppose that Gwen were to blow across the open end of the closed tube. How would you compare the frequencies of the tones of the tubes?

The frequency of the closed tube is:

- (a) higher than that of the open tube.
- (b) lower than that of the open tube.
- (c) the same as that of the open tube.

Click here for Answer #160 after October 20, 2003.

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For questions and comments regarding the *Question of the Week* contact
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given on the Lecture-Demonstration Home Page.