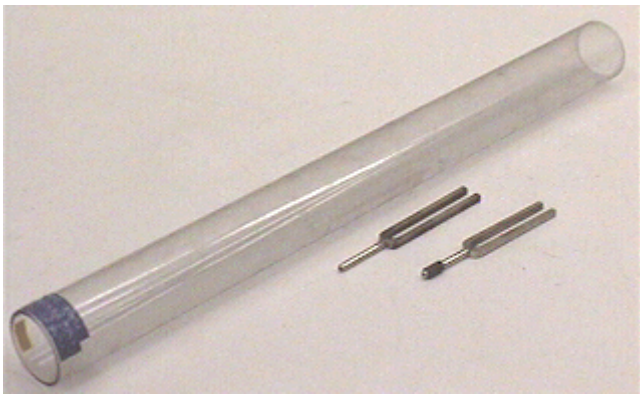
Question #161

The photograph below shows a plastic tube and two tuning forks with different frequencies. The sounds of the tuning forks are reproduced on an mpeg video that can be played by clicking here. The frequencies of the two tuning forks are 384 Hz and 480 Hz.



When the 480 Hz tuning fork is held near the end of the tube, the sound becomes louder, as heard on an mpeg video by clicking your mouse on the photograph above. The question this week is how loud the sound of the other tuning fork will be, relative to the one in this video, when it is struck and held near the tube in the same manner.

When the second tuning fork (lower frequency) is struck and held near one end of the tube, compared with the case of the 480 Hz fork, the sound will be:

- (a) louder.
- (b) softer.
- (c) about the same.

Click here for Answer #161 after October 27, 2003.

Question of the Week

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For questions and comments regarding the *Question of the Week* contact
Dr. Richard E. Berg by e-mail or using phone number or regular mail address
given on the Lecture-Demonstration Home Page.