

## QUESTIONS TO HAND IN-EXPERIMENT 13

NAME \_\_\_\_\_

LAB INSTRUCTOR \_\_\_\_\_ LAB DAY/TIME \_\_\_\_\_

1. What is the difference between the standing wave loop patterns on a string versus a closed pipe, as illustrated in Figure 13-2?
2. The speed of sound is 343 m/s in air at room temperature. Assuming that the light from a lightning flash arrives almost instantaneously, how far away is a flash whose thunder takes 5 seconds to reach you?
3. As we perceive sound, what property is related to the maximum amplitude at the antinodes of a standing wave?
4. What does the term "longitudinal wave" mean when applied to sound?
5. A certain musical note has a frequency of 440 hertz. What is its wavelength?