1. When you drop a rock into a well you hear the splash 1.5 seconds later. How deep is the well?

2. Residents of Hawaii are warned of the approach of a tsunami by sirens mounted on the tops of towers. Suppose a siren produces a sound that has an intensity level of 120 dB at a distance of 2 m. Find the intensity level heard by an observer at a distance of 12 m.

3. Two bicycles approach each other both traveling at 8.5 m/s. If bicycle A beeps a 315 Hz horn, what frequency is heard by bicyclist B?

4. The organ pipe shown is 2.75 m long. Make sure you know how to get n
   a. What is the frequency of the standing wave shown in the pipe?
   b. What is the fundamental frequency of this pipe?

5. Identical cellos are being tested. One is producing a fundamental frequency of 130.9 Hz on a string that is 1.25 m long and has a mass of 109 g. On the second cello the same string is fingered to reduce the length that can vibrate. If the beat frequency produced by these two cellos is 4.33 Hz what is the vibrating length of the second string?