

QUESTIONS TO HAND IN – EXPERIMENT 2

NAME _____

LAB INSTRUCTOR _____ LAB DAY/TIME _____

1. A pure musical tone is sounded at a frequency f of 440 hertz. What is the wavelength λ ?
(Take the speed of sound as 340 m/s.)
2. What is the third harmonic of the above sound?
3. A piano and a trumpet play exactly the same note. Briefly explain why one can immediately tell the difference between the two instruments.
4. Briefly describe the difference between a transverse and a longitudinal wave.
5. When sound travels through the air, what is the “disturbance” that propagates as a wave?