Name: _____

Period:_____

HW Unit 10:5—Sound
Mr. Murray, IPC
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A-day: Due Fri., 3/27 (Assig: 4/25)
B-day: Due Mon., 3/30(Assig: 4/26)

1. If a person talks louder the sound wave has more:
2. If a person sings higher, the sound has a greater:
3. Sound is transverse or longitudinal wave?
4. What units do we use to measure loudness of sound?
5. The speed of sound in air is:
6. A person talks to you at 40 dB. Is that loud or soft?
7. To double the loudness of their voice, the above person would have to speak at how many decibels?
8. Is the speed of sound get faster or slower in dense material?
9. Which is faster: the speed of sound in air or in water?
10. Which is faster: the speed of sound at sea level or at the top of a mountain?
11. You see a lightening bolt and hear the sound 4 seconds later. How far away is the storm?
    Variables: Equation: Solve:

12. How does a radio speaker prove that sound is a longitudinal wave?
13. A sound has a frequency of 100 Hz, find its wavelength.
    Variables: Equation: Solve:
14. Which has a longer wavelength: a high note or a low note?
15. A noise has a frequency of 60 Hz. Can we hear it?
16. A noise has a frequency of 23,000 Hz. Can we hear it?
17. For the following graph. A) find period.
    B) Find wavelength.
    C) find speed.