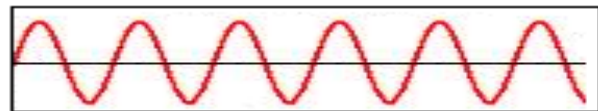
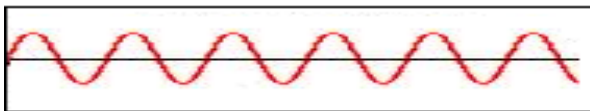


1. What exactly is a sound? Sound is \_\_\_\_\_.
2. Vibration is a movement, either back and forth or up and \_\_\_\_\_.
3. The vibration of the Bell disturbs the surrounding air and the sound travels through the air to your \_\_\_\_\_ in the form of a wave.
4. The sound waves travel to your ear and your \_\_\_\_\_ interprets the sound.
5. A \_\_\_\_\_ is any solid (like the ground) or a gas (like air), or liquid (like water).
6. In outer space you can't hear anything because there is no air, so there is no medium that the \_\_\_\_\_ waves can go through.
7. When water is disturbed it causes energy waves to go \_\_\_\_\_ from the source of the disturbance.
8. Where the molecules are squeezed together it's called \_\_\_\_\_ and where the molecules are stretched apart it's called a **rarefaction**.
9. High points of the wave are called \_\_\_\_\_.
10. Low points of the wave are called \_\_\_\_\_.
11. Amplitude describes how \_\_\_\_\_ or soft a sound is.
12. The unit of measurement used for amplitude is the \_\_\_\_\_, shown as the symbol **dB**.

13. Which one of these is loud? Which one is quieter? Label below the picture.



\_\_\_\_\_

\_\_\_\_\_

14. When sound is over 120 decibels, it can be dangerous. The sensation of sound is replaced by a sensation of \_\_\_\_\_.
15. \_\_\_\_\_ is the measurement of the distance between 2 high points or two low points on a wave.
16. Frequency a measurement of the number of waves that \_\_\_\_\_ a certain point in a given time.

17. Frequency is measured in units called \_\_\_\_\_, shown as a symbol **Hz**.
18. Frequency determines what is called the \_\_\_\_\_ of sound, (or how high or low a sound is).
19. A flute, for instance, has a \_\_\_\_\_ frequency and higher pitch than a tuba, which has lower frequency and thus a lower pitch.
20. What animal hears higher frequencies than humans? \_\_\_\_\_
21. The process of using echoes to locate objects is called \_\_\_\_\_.
22. An ultrasound exam is a procedure that uses high frequency sound \_\_\_\_\_ to scan a woman's abdomen to create a picture of a baby and placenta.
23. The rate at which sound travels through the air is approximately 340 \_\_\_\_\_ per second at sea level -- that's over 760 mph!
24. If you take sound into water, it travels faster than it does in air. And sound \_\_\_\_\_ even faster in steel.
25. The quality of a medium that describes how quickly molecules bounce against each other is known as \_\_\_\_\_.
26. Sound travels faster in solids than in gases or liquids because solids are more \_\_\_\_\_.
27. The colder a medium gets, the \_\_\_\_\_ the sound will travel through it.