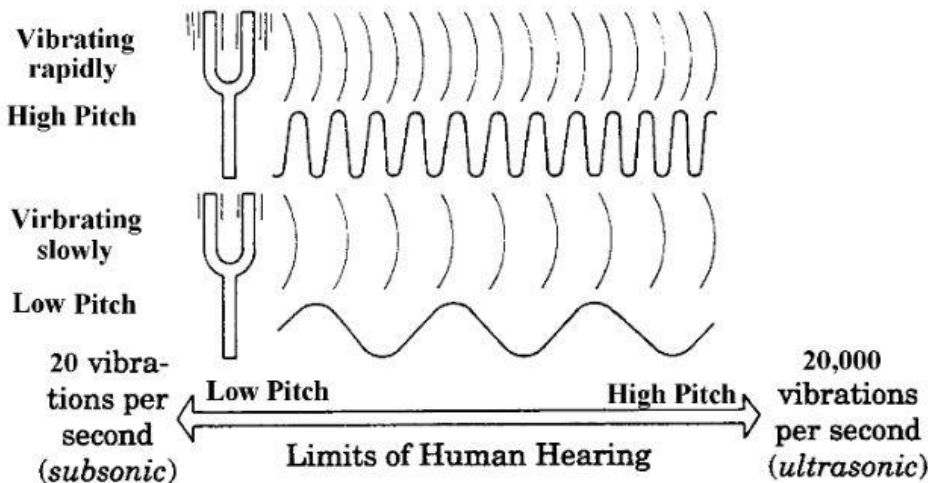


# Characteristics of Sound

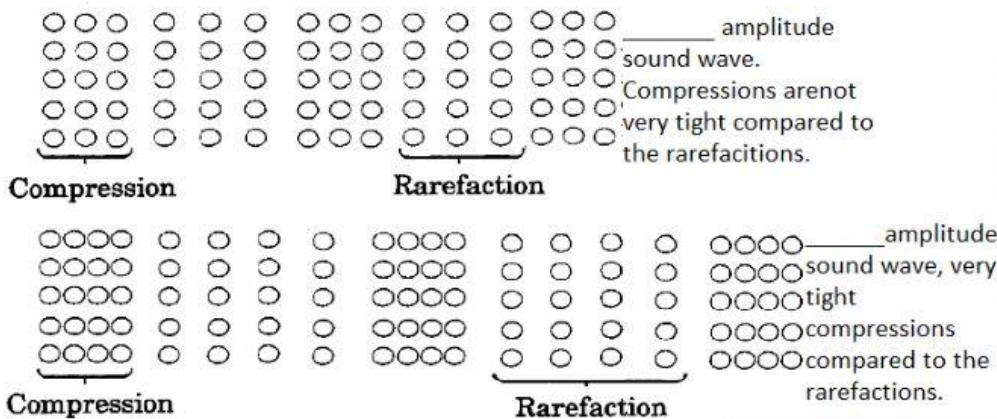
**Frequency**— Is the number of \_\_\_\_\_ that pass a fixed point per second Measured in \_\_\_\_\_ (Hz)



Decibels (dB)

0	silence
10	heartbeat
20	whisper
30	soft piano
40	typewriter
50	soft talking
60	conversation
70	barking dog
80	street traffic
90	food blender
100	air hammer
110	thunder
120	painful sounds
170	jet engine

**II. Amplitude**— Is the measure of the \_\_\_\_\_ a wave carries.



**Intensity**— measures the amount of sound \_\_\_\_\_ flowing through an area in a given time.

**Loudness**— Is the \_\_\_\_\_ perception of sound intensity.

2. Is the frequency of the following sounds high or low?

- a. whine of jet engine \_\_\_\_\_ c. fire alarm \_\_\_\_\_ e. thunder \_\_\_\_\_  
b. a tuba \_\_\_\_\_ d. bass drum \_\_\_\_\_ f. flute \_\_\_\_\_

3. Write the word or words that will make each sentence a true statement.

- a. A sound with many vibrations per second (vps) produces a \_\_\_\_\_ pitch;  
a sound with few vps produces a \_\_\_\_\_ pitch.  
b. Whistles heard by dogs and not people have more than \_\_\_\_\_ vps.  
c. Sounds of fewer than 20 vps cannot be heard by people and are said to be \_\_\_\_\_.  
d. \_\_\_\_\_ is a measure of the energy in a sound wave, measured in \_\_\_\_\_.  
e. Sounds above \_\_\_\_\_ decibels are painful to the ear and should be avoided.

4. What does hertz measure? \_\_\_\_\_ 5. What is the abbreviation for hertz? \_\_\_\_\_

6. What do decibels measure? \_\_\_\_\_ 7. What is the abbreviation for decibels \_\_\_\_\_