Acoustics Quiz

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. List the 7 characteristics of a waveform:

Short answer question

1. What is the approximate speed of sound (in ft/s) at sea level?

1125

1500

750

927.5

1. What is the frequency range that the average human can perceive?

10hz - 15khz

20hz - 2khz

20hz - 20khz

15hz - 35khz

1. What two properties of an object affect the speed of sound?

Elasticity and Density

Elasticity and Permeability

Permeability and Reflectivity

Reflectivity and Density

1. What is standing wave/resonance of a room:

A buildup of sound at a specific frequency

A cancellation of a specific frequency

Excess echo in a room

How bassy a room is