Sound is caused when something vibrates in the air T/F

The ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (or pitch) of a sound is determined by the number of vibrations per second of the object causing the sound, which is measured in Hertz (abbreviated Hz)

Tone

Harmonic

Frequency

Sustain

If the frequencies of two sounds are very close to a small whole-number ratio (For example, two sounds with frequencies of 440 Hz and 220 Hz have a ratio of 2:1 they sound pleasing when heard together. In music theory, this characteristic is generally described as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

dissonant

sharp

consonance

flat

You have tuned the open string. When you play it at the twelfth fret, the note is sharp. To properly intonate this string, you should

a. turn the saddle screw for string length clockwise

b. turn the saddle screw for string length counter-clockwise

c. turn the truss rod adjustment nut clockwise

d. turn the tuner knob counter-clockwise

5. To use the oscilloscope to set the intonation for a string, the frequency at the twelfth fret should be

a. four times the open string frequency

b. half the open string frequency

c. double the open string frequency

d. quarter the open string frequency

6. Express the answer to number 5 as a ratio.

a. 2:1

b. 4:1

c. 1:2

d. 2:2

7. If the scale length of the instrument is 25.5 inches, then the twelfth fret should be located at

a. 12.75 inches

b. 6.375 inches

c. 19.125 inches

d. 12.25 inches

8. If the scale length of the instrument is 34 inches, the length of each string will be progressively \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than the scale length of 34 inches.

a. more

b. less

9. The reason that large diameter strings require moving the bridge saddle to change the overall string length is

a. string pitch

b. string frequency

c. string diameter

10. Intonation is based on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, the study of how the human ear and brain perceive sound. (psychoacoustics)