Physics I Honors: Chapter 12 Practice Test: Sound

Multiple Choice
Identify the letter of the choice that best completes the statement or answers the question.

_____ 1. The trough of the sine curve used to represent a sound wave corresponds to
    a. a compression.
    b. the wavelength.
    c. the amplitude.
    d. a rarefaction.

_____ 2. Pitch depends on the _____ of a sound wave.
    a. frequency
    b. amplitude
    c. power
    d. speed

_____ 3. In general, sound travels faster through
    a. solids than through gases.
    b. gases than through solids.
    c. gases than through liquids.
    d. empty space than through matter.

_____ 4. At a large distance from a sound source, spherical wave fronts are viewed as
    a. wavelengths.
    b. troughs.
    c. rays.
    d. plane waves.

_____ 5. The distance between wave fronts of plane waves corresponds to _____ of a sound wave.
    a. one wavelength
    b. two amplitudes
    c. one compression
    d. two rarefactions

_____ 6. The Doppler effect occurs with
    a. only sound waves.
    b. only transverse waves.
    c. only water waves.
    d. all waves.

_____ 7. If you are on a train, how will the pitch of the train's whistle sound to you as the train moves?
    a. The pitch will become steadily higher.
    b. The pitch will become steadily lower.
    c. The pitch will not change.
    d. The pitch will become higher, then become lower.

_____ 8. The property of sound called *intensity* is proportional to the rate at which energy flows through
    a. an area perpendicular to the direction of propagation.
    b. an area parallel to the direction of propagation.
    c. a cylindrical tube.
    d. a sound wave of a certain frequency.

_____ 9. If the intensity of a sound is increased by a factor of 100, the new decibel level will increase
    a. by two units.
    b. to twice the old one.
    c. by a factor of 10.
    d. by 20 units.

_____ 10. Which of the following decibel levels is nearest to the value that you would expect for a running vacuum cleaner?
    a. 10 dB
    b. 30 dB
    c. 70 dB
    d. 120 dB

_____ 11. For a standing wave in an air column in a pipe that is open at both ends, there must be at least
    a. one node and one antinode.
    b. two nodes and one antinode.
    c. two antinodes and one node.
    d. two nodes and two antinodes.

_____ 12. The wavelength of the fundamental frequency of a vibrating string of length L is
    a. $1/2\,L$.
    b. L.
    c. $2L$.
    d. $4L$.

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