Name: _____

Date: _____ Grade: _____

SECTION QUIZ 4-3



Remember:
Score an average of 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.5 points.

Fill in the blank or circle True or False.

1. The transfer of heat by direct contact is _____.
2. Gases conduct heat better than solids.
   (a) True or (b) False
3. The transfer of heat by currents is _____.
4. Heat transfer by electromagnetic energy is _____.
5. Dark, rough surfaces radiate energy better than smooth shiny ones.
   (a) True or (b) False
6. A surface that is a good radiator of heat is also a good absorber of heat.
   (a) True or (b) False
7. Conduction, _____ and radiation can transfer heat.
8. A water wave is an example of a(n) _____ wave.
   (a) longitudinal (b) transverse (c) adverse (d) converse
9. The maximum distance from the position of rest in a wave is the: _____.
   (a) node (b) modification (c) attitude (d) amplitude
10. The distance between any two successive identical points on a wave is the _____.
11. To be in phase, two corks must be separated by: _____.
    (a) a half wavelength (c) a three-quarter wavelength
    (b) no wavelength (d) any number of full wavelengths
12. If a crest of one wave meets the crest of another wave, the result is _____ interference.
    (a) constructive (b) destructive (c) obstructive (d) instructive
13. The greatest destructive interference occurs when the two waves are out of phase by _____ of a wavelength.
14. Time divided by number of waves calculates a wave's: _____.
    (a) location (b) occupancy (c) period (d) frequency

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15. Wave motion transfers energy from one point to another.
    (a) True or (b) False

16. The distance along the wave from crest to crest is the: _____.
    (a) size of the currents
    (b) displacement theory
    (c) node
    (d) wavelength

17. As frequency increases, wavelength increases.
    (a) True or (b) False

18. To measure speed, divide distance by _____.

19. Frequency times the wavelength is a measure of a wave's: _____.
    (a) size (b) distance (c) speed (d) period

20. The wave equation is: _____.
    (a) frequency * wavelength
    (b) waves/time
    (c) time divided by wavelength
    (d) wavelength * time

21. Sound waves are: _____.
    (a) transverse (b) reverse (c) latitudinal (d) longitudinal

22. Loudness is a sound's _____.

23. An echo is an example of a sound that has been: _____.
    (a) retracted (b) obstructed (c) reflected (d) bent

24. Waves reflect best from objects that are smaller than their wavelength.
    (a) True or (b) False

25. Pitch is a sound's: _____.
    (a) amplitude (b) frequency (c) speed (d) altitude

26. As frequency increases, the length of sound waves become: _____.
    (a) longer (b) equal (c) the same length (d) shorter

27. The sound that is more likely to be reflected is a _____ pitched sound.
    (a) high (b) low (c) medium (d) short

28. Sound travels faster in: _____.
    (a) air (b) water (c) sand (d) steel

29. Frequency of sound is its _____.

30. The lowest pitch a musical instrument can make is its fundamental _____.

31. An object that vibrates at a higher pitch is a _____ object.

32. Heavier, more massive objects vibrate at a _____ pitch than lighter, less massive objects.

33. The one that will vibrate at a higher pitch is an object under _____ tension.

34. Sympathetic vibration is an example of _____.

35. Alternate reinforcements and cancellations caused by interference of sound waves will produce beats.
    (a) True or (b) False

36. *"Let us devote our life to worthwhile _____ and feelings, to great thoughts, real affections, and enduring undertakings."*

37. *"Laziness travels so slowly that poverty soon _____ him."*

38. *"When we draw conclusions and interpret observations, _____ must be checked against factual results."*

39. *"Success comes in _____, failure in can't."*

40. *"Remember, success is not measured by heights attained but by _____ overcome."*