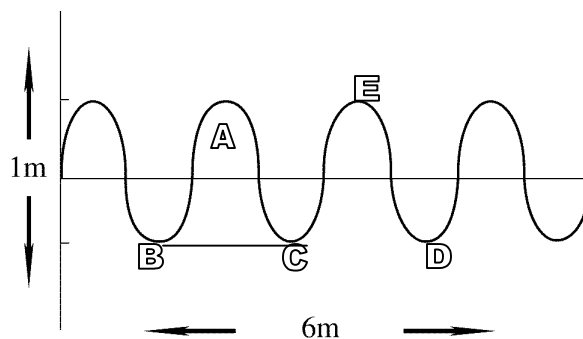


## Waves Test Review

1. What are waves?
2. What are electromagnetic waves?
3. What are mechanical waves?
4. What are the three types of waves?
5. Describe each of the three waves.
6. What are the characteristics of waves?
7. Describe each of the characteristics of waves.
8. What is energy?
9. What is the Doppler Effect?
10. What is energy?
11. What is Compression?
12. What is Rarefaction?
13. Sound waves are which kind of waves?
14. Light waves are which kind of waves?
15. Give an example of a transverse wave.
16. What is a medium?
17. What is defraction?
18. What is refraction?
19. What is reflection?
20. Give an example of a longitudinal wave.
21. Do sound waves require a medium?
22. Give an example of an electromagnetic wave.
23. What is Interference?
24. What is the difference between visible light and X rays?
25. What is the formula for wave length?
26. How do waves relate to cycles?



27. Which letter represents the wave length?
28. Which letter represents the wave amplitude?
29. Which letter represents the trough?
30. Which letter represents the crest?

31. What is the wave length of the wave above?  
a. 1 m                      b. 1.5 m                      c. 2.0 m                      d. 3.0 m                      e. 6 m
32. What is the amplitude of the wave above?  
a. 1 m                      b. 2 m                      c. 0.5 m                      d. 1.5 m                      e. 6 m
33. What type of wave is the above wave?  
a. Transverse b. Longitudinal                      c. Compression                      d. New
34. A sound wave is a \_\_\_\_\_ wave.  
a. Transverse b. Compression                      c. Longitudinal                      d. both b and c
35. A wave with a frequency of 10 and a velocity of 40 m/wave would have a speed of  
a. 2                      b. 3.5                      c. 4                      d. 5
36. Which type of *waves* are those in which the motion of the medium is at right angles to the direction of the wave motion? \_\_\_\_\_
37. Which type of *waves* are those that are formed by a series of areas of compressed medium, *compressions*, alternating between areas of more widely spaced molecules, *rarefactions*? \_\_\_\_\_
38. Which type of waves are sound waves? \_\_\_\_\_
39. Which type of waves are ocean waves? \_\_\_\_\_
40. The \_\_\_\_\_ of a transverse wave is equal to the number of crests or troughs which pass by a location in a given unit of time.
41. \_\_\_\_\_ is measured from crest to crest of a transverse wave.
42. The \_\_\_\_\_ is the low point between two wave crests.

