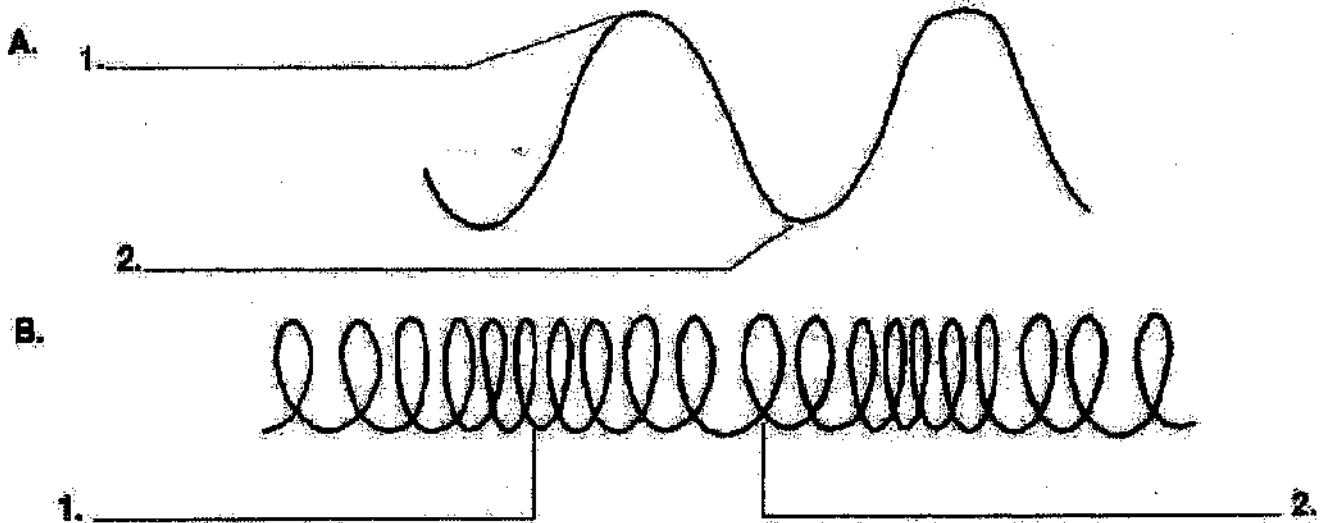


Complete the following.

1. A low point of a wave is called a _____.
2. A crest is the _____ of a wave.
3. When the particles of the medium move back and forth along the direction of the wave motion, the wave is a _____.
4. When the particles of a medium are far apart, that part of the wave is called a _____.
5. Compression is the part of the medium where particles are _____.
6. A wave in which the particles of the medium move at right angles to the direction in which the wave travels is called a _____.

Skill Challenge

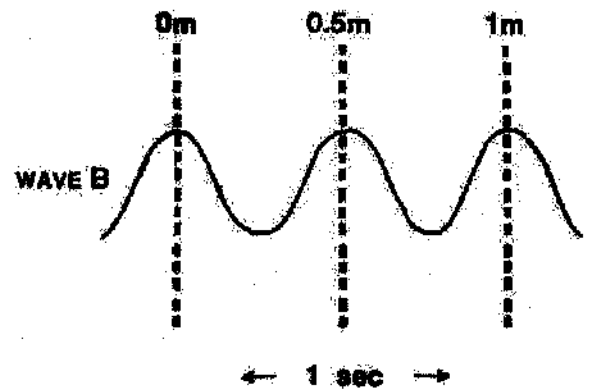
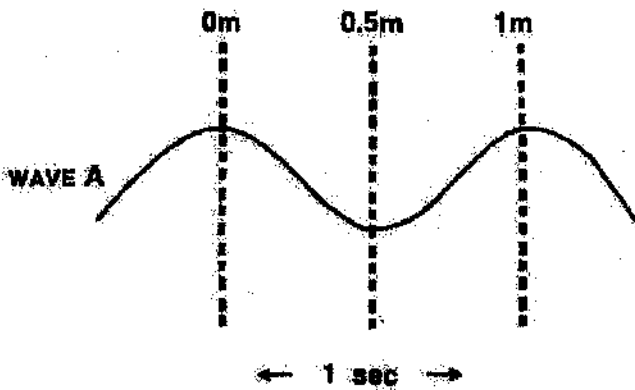
Skills: labeling, interpreting a diagram, classifying Complete the following.



7. What type of wave is shown in Diagram A? _____
8. Label a crest and a trough on the wave in Diagram A.
9. What type of wave is shown in Diagram B? _____
10. Label a compression and a rarefaction on the wave in Diagram B.

Skills: calculating, interpreting a diagram

Use the diagram to answer the following questions.



11. What is the wavelength of wave A? _____
12. What is the frequency of wave A? _____
14. What is the wavelength of wave B? _____
15. What is the frequency of wave B? _____

Circle the term in each group that does not belong with the others. Then, in the space provided, explain how the terms in the remaining pair are related.

16. trough, medium, wave _____

17. amplitude, hertz, frequency _____

18. crests, wavelength, compression _____

19. crest, longitudinal wave, rarefaction _____

20. wave, matter, energy _____
