

Name: _____

Period: _____ Date: _____

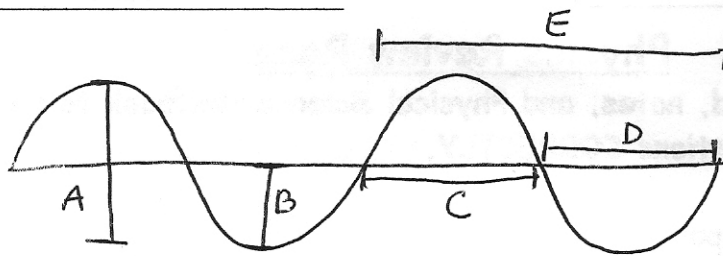
Physics Review Race

Directions: Use your head, notes, and Physical Science textbook to be one of the first 5 to answer ALL questions CORRECTLY.

1. What do waves transport?
2. Define medium.
3. Does visible light require a medium?
4. What happens to the wavelength of sound waves as the frequency increases?
5. Define refraction.
6. Name 5 examples of electromagnetic waves (EM waves).
7. What does the color of visible light depend on?
8. Does light travel faster in glass or a vacuum?
9. In a transverse wave, which way does the energy move? Which way do the particles of the medium move?
10. Are light waves transverse or longitudinal?
11. Describe how the fans in a stadium must move in order to produce a longitudinal wave?
12. Applying the Doppler Effect, as sound waves move toward you, their frequency
_____.
13. Define reflection.
14. Define diffraction.

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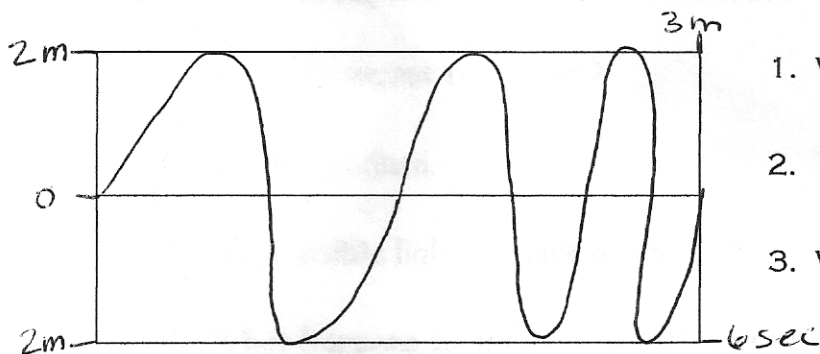
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15. What is the amplitude for the above wave?
16. Which letter represents one wavelength?
17. Which letter represents the height of the wave?
18. In a longitudinal wave, which way do the particles of the medium move compared to the energy?
19. The compressions of a longitudinal wave are like the _____ of the transverse waves and the rarefactions are like the _____ of the transverse waves.
20. Do sound waves require a medium?
21. If a transverse wave is transporting energy from left to right, what way are the particles of the medium moving?
22. What kind of waves are sound waves?
23. The energy of a wave is most closely related to what wave characteristic?
24. What is the medium of a seismic wave?
25. Define crest.

WAVE CHARACTERISTICS

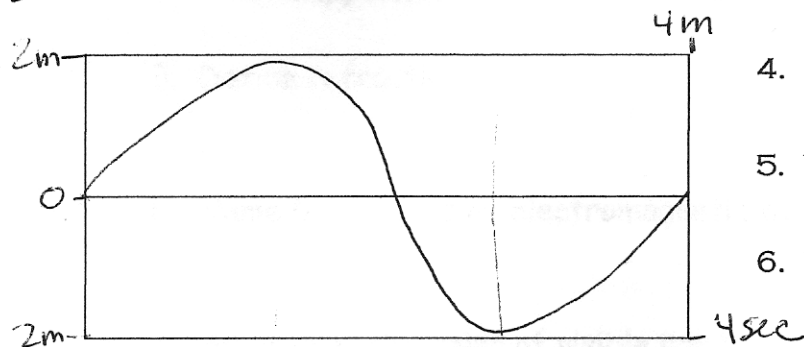
USE THE WAVES DRAWN ON THE LEFT TO ANSWER THE QUESTIONS ON THE RIGHT.



1. WHAT IS THE AMPLITUDE OF THIS WAVE?

2. WHAT IS THE ~~WAVELENGTH~~ ^{period}?

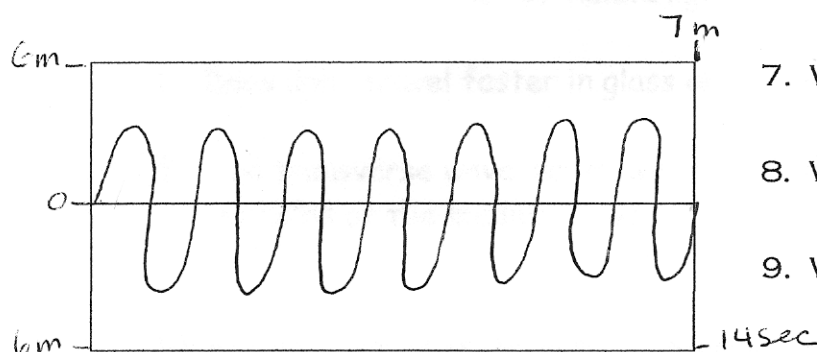
3. WHAT IS THE FREQUENCY?



4. WHAT IS THE WAVELENGTH OF THIS WAVE?

5. WHAT IS THE FREQUENCY?

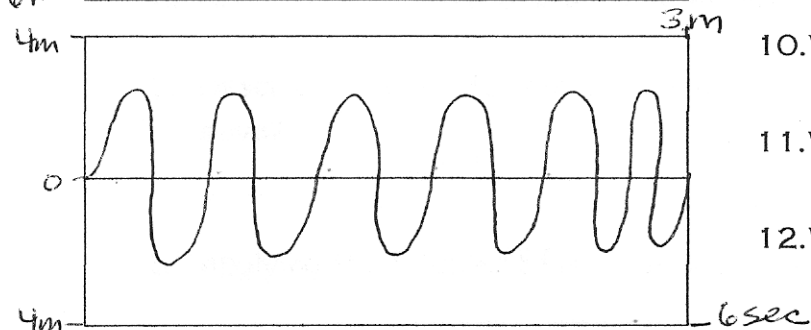
6. WHAT IS THE PERIOD?



7. WHAT IS THE AMPLITUDE OF THIS WAVE?

8. WHAT IS THE HEIGHT?

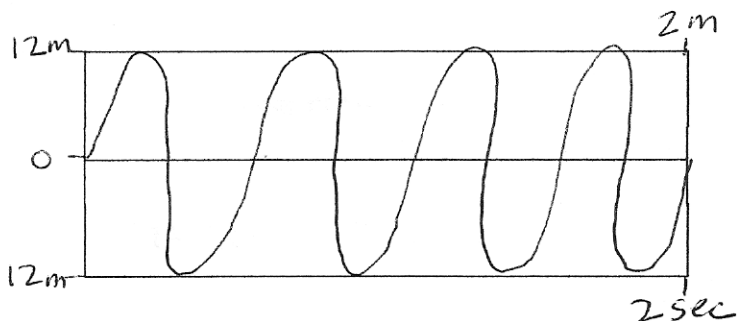
9. WHAT IS THE WAVELENGTH?



10. WHAT IS THE AMPLITUDE OF THIS WAVE?

11. WHAT IS THE FREQUENCY?

12. WHAT IS THE PERIOD?



13. WHAT IS THE HEIGHT OF THIS WAVE?

14. WHAT IS THE PERIOD?

15. WHAT IS THE WAVELENGTH?