

PRE AP PHYSICS SOUND WAVES QUIZ

1. As the wavelength in a uniform medium increases, speed will ____ A. Decrease B. Increase C. Go to Zero D. Remain the same	2. As the wavelength of a wave in a uniform medium increases its frequency will ____. A. Decrease B. Increase C. Go to Zero D. Remain the same
3. How can a tree fall and not make a sound A. Fall Quickly B. Fall Underwater C. Fall when no one is around. D. Fall where no medium is present.	4. Sound waves travel fastest through a. A pool full of water. b. The air above the pool. c. Space d. A room full of helium.
5. Sound A has twice the frequency as sound B how would their wavelengths compare: a. Sound A is twice as long as sound B b. Sound A is half the length as sound B c. Sound A and B have the same wavelengths d. The wavelength ratio is unknown	6. Longitudinal waves are different than transverse waves because: a. They are created by mechanical means b. They can travel with or without a medium c. They move side to side while transverse move up and down d. They only occur in space



7. The above diagram demonstrates: a. Wave interference **b. Constructive Interference**
c. Destructive interference d. Resonance
8. A sound wave travels at a speed of 330 m/s what would the frequency of a wave be that has a wavelength of 12 cm? **$330/.12\text{m} = 2750 \text{ Hz}$**
9. What is the period of the wave from question 8?
 $T = 1/f = 1/2750 = 3.6 \times 10^{-4}$
10. A wave has a frequency of 10 hz and a wavelength of 1000 cm what is the speed of this wave? **$1000 \text{ cm} = 10\text{m}$ $10\text{m} \times 10 \text{ hz} = 100 \text{ m/s}$ $v = \lambda f$**
11. A wave travels one complete cycle in 20 sec and has a wavelength of 1000 mm what is its speed? **$f = 1/T$ $1/20 = .05 \text{ hz}$**
12. Water is about five times denser than air therefore it will increase the speed of sound by If the speed of sound is 330 m/s what would the sounds wavelength be underwater if its frequency was 35 hz? **$(330 \times 5)/35 = 47.14 \text{ m}$**

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Lingjun Ying



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