Wave Equation Homework

(1) This is a preview of the published version of the quiz

Started: May 14 at 7:36am

Quiz Instructions

Question 1	1 pts
A 156 Hz tuning fork is struck and a sound wave travels towards a person. If the s wave is moving 340 m/s, determine the wavelength of the sound.	ound
meters	
Velocity = Wavelength*Frequency	

Question 2	1 pts
A 212 Hz tuning fork is struck and a sound wave travels into a solid piece of iron. If the sound wave has wavelength 3 meters in the iron, determine the velocity of sound in m/s	he iron.
Velocity = Wavelength*Frequency	



A tuning fork is struck and a sound wave travels towards a person with wave length .4 meters. If the sound wave is moving 340 m/s, determine the frequency of the sound. Hz

Question 4	1 pts
A person yells toward a large canyon wall 1000 meters away. If the velocity of sou air is 340 m/s, how much time passes for the yell to echo back to the person?	ind in
seconds	
speed = distance/time	
*Remember to double the distance.	

Question 5	1 pts
The speed of light is 300,000,000 m/s.	
What is the wavelength of a light wave with frequency 10,000 Hz?	
meters	
Velocity = Wavelength*Frequency	



Velocity =	Wavelength*Frequency
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1 pts

The velocity of a wave is determined by the medium in which it travels.

True

Question 7

False

Question 8	1 pts
Sound travels faster in solids than in gases or liquids.	
True	
False	

Question 9	1 pts
Sound does not need a medium in which to travel.	
True	
False	

Question 10	1 pts
Electromagnetic waves do not need a medium in which to travel.	
True	
○ False	

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