Name Kly

MUI	TIPLE CHOICE. Choose the one alternative that best completes the statement or answers the que	stion.
= 50 f = x= 9L	1) The velocity of propagation of a transverse wave on a 2.0-m long string fixed at both ends is 200 m/s. Which one of the following is not a resonant frequency of this string? A) 100 Hz B) 200 Hz C) 25 Hz D) 50 Hz	1)
fo=500	 2) If a guitar string has a fundamental frequency of 500 Hz, which one of the following frequencies can set the string into resonant vibration? A) 1500 Hz B) 250 Hz C) 750 Hz D) 1750 Hz 	2)
Fo-0300	3rd Harmonic	3) <u>B</u>
(4)	4) Which of the following is a false statement? A) Sound can travel through a vacuum. B) The transverse waves on a vibrating string are different from sound waves. C) Sound waves are longitudinal pressure waves. D) "Pitch" (in music) and frequency have approximately the same meaning. E) Light travels very much faster than sound.	4)
	5) A pipe of length L closed-at-one end is resonating at its fundamental frequency. Which statement is correct? A) The wavelength is 4L and there is a displacement node at the pipe's open end. B) The wavelength is 4L and there is a displacement antinode at the pipe's open end. C) The wavelength is L and there is a displacement antinode at the pipe's open end. D) The wavelength is L and there is a displacement node at the pipe's open end.	5) <u>B</u>
	 6) The lowest tone to resonate in a closed pipe of length L is 200 Hz. Which of the following frequencies will not resonate in that pipe? A) 1000 Hz B) 400 Hz C) 1400 Hz D) 600 Hz 7) An open pipe of length L is resonating at its fundamental frequency. Which statement is correct? A) The wavelength is 2L and there is a displacement antinode at the pipe's midpoint. B) The wavelength is L and there is a displacement node at the pipe's midpoint. C) The wavelength is 2L and there is a displacement node at the pipe's midpoint. D) The wavelength is L and there is a displacement antinode at the pipe's midpoint. 	6) <u>8</u> 7) <u>C</u>
y=A	 8) An object in simple harmonic motion obeys the following position versus time equation: y = (0.50 m) sin (π/2 t). What is the amplitude of vibration? A) 0.75 m B) 1.0 m D) 0.25 m 	8) 10
	9) For a wave, the frequency times the wavelength is the wave's A) intensity. B) amplitude. D) power.	9)

