Waves are	and they	
	& information over	
great distances		
The energy of a w frequency.	vave is	to its
Fast oscillation = Slow oscillation	= high frequency = = low frequency =	
The intensity.	_ is a measure of the	wave
 SOUND: amplitude LIGHT: amplitude 	de corresponds to corresponds to	

The illustration below shows a series of transverse waves. Label each part in the space provided.



Wave CalculationsV = $v = \lambda f$ $\lambda =$ f =f =

The wavelength of a sound wave in this room is 1.13 m and the frequency is 301 Hz. What is the speed of the wave in the room?

Consider a wave generator that produces 12 pulses per second (a frequency of 12 Hertz). The speed of the waves is 3 m/s. What is the wavelength of the waves?

Sally Sue, an enthusiastic physics student enjoyed the opportunity to collect data from standing waves in a spring. She and her partner held the ends of their spring 4.00 meters apart to create a wave. Their wave's speed was 20 m/s. What is the wave's frequency?

Wave Trains

a) How many waves are there in this wave train? _____

b) How many waves are there in this wave train? _____



c) How many waves are there in this wave train? _____