Names:_____

Frequency (Hz)	Tube length (m)	x4=	wavelength (m)	speed = frequency x wavelength
293.7				
329.6				
349.2				
392				
440				
493.9				
523.3				

Experimental Speed of Sound (average the numbers) = _____

The experimental speed of sound needs to be adjusted for the air temperature.

Adjustment for temperature = (Experimental Speed of Sound) + (.59 x degree C) = ( ) + (.59 x ( )) = _____

Accepted Speed of Sound in Air = 331.5 m/s + (.59 x degree C) = 331.5 m/s + (.59 x ( )) = _____

The percent error is how well you measured things in your experiment.

Percent Error = (((Experimental speed) - (Accepted speed)) / (Accepted Speed)) x 100 = (( ) - ( )) / ( ) x 100 =_____%