Name _____ Period _____

Waves Quiz 2

1. A wave is set up in a guitar string that travels 450 m/s. If the length of the string is 78 cm what is the frequency of the sound produced? What should you do to increase the frequency slightly?

2. A pop bottle us used as a musical instrument. The distance from the top of the bottle to the liquid inside is 8.41 cm. The temperature is 23 °C. What is the note heard when blowing into the pop bottle?

3. A train produces a horn sound with a frequency of 125 Hz. Standing near the track you hear the sound as a frequency of 115 Hz. If the temperature is 25 °C how fast is the train going and in what direction?