

Intro. to Waves Practice

Date: _____

Hour: _____

1. Draw a wave. Label the amplitude, rest position, crest, and trough.

2. If a water wave vibrates up and down 2 times each second and the distance between wave crests is 2.85 m...
 - a) What is the frequency of the wave?

 - b) What is the wavelength of the wave?

 - c) What is the speed of the wave?

 - d) What is the period of the wave?

3. Consider the wave in the previous question. Why don't you know the amplitude of the wave?

4. Consider a wave that has a wavelength of 3.7 m. If the frequency was 2.5 Hz, then calculate the speed of the wave.

5. A wave travels at a speed of 12.5 m/s. The frequency is 24.3 Hz. What is the wavelength?