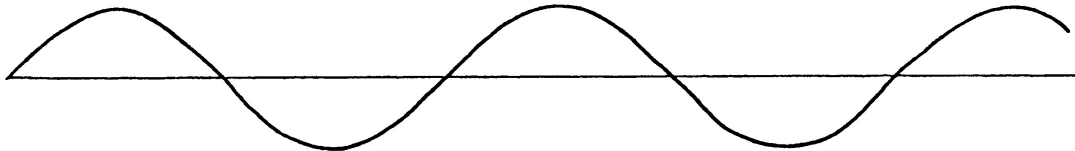


CONCEPTUAL PHYSICAL SCIENCE **EXPLORATIONS****Chapter 13 Waves and Sound****Vibrations and Waves**

1. A sine curve that represents a transverse wave is drawn below. With a ruler, measure the wavelength and amplitude of the wave.



a. Wavelength = _____

b. Amplitude = _____

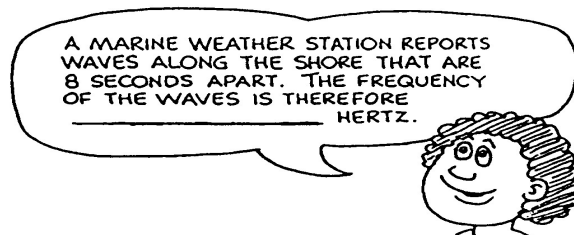
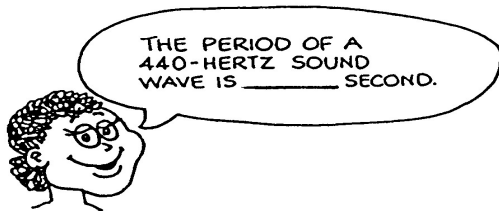
2. A kid on a playground swing makes a complete to-and-fro swing each 2 seconds. The frequency of swing is
(0.5 hertz) (1 hertz) (2 hertz)

and the period is

(0.5 second) (1 second) (2 seconds)



3. Complete the statements.



4. The annoying sound from a mosquito is produced when it beats its wings at the average rate of 600 wingbeats per second.

a. What is the frequency of the sound waves?

b. What is the wavelength? (Assume the speed of sound is 340 m/s.)

