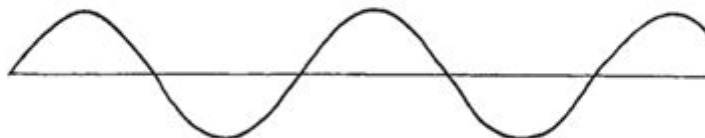


Name _____ Class _____ Date _____

Concept-Development Practice Page 25-1

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 = 7 cm b. Amplitude = 1.5 cm

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

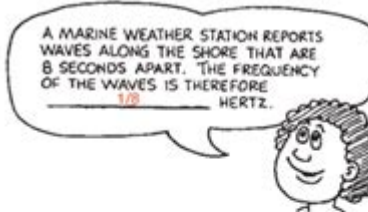
(0.5 second) (1 second) (2 seconds)



3. Complete the statements.



THE PERIOD OF A 440-HERTZ SOUND WAVE IS 1/440 SECOND.



A MARINE WEATHER STATION REPORTS WAVES ALONG THE SHORE THAT ARE 8 SECONDS APART. THE FREQUENCY OF THE WAVES IS THEREFORE 1/8 HERTZ.

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 soundwaves?
600 Hz

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



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CONCEPTUAL PHYSICS

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