

# Chapter Test

## Waves

In the space provided, write the letter of the term or phrase that best completes each statement or best answers each question.

- \_\_\_\_\_ 1. Water waves  
 a. transport energy and water.      c. transport water but not energy.  
 b. transport energy but not water.      d. are not mechanical waves.
- \_\_\_\_\_ 2. The medium seismic waves travel through is  
 a. a vacuum.      c. air.  
 b. rocks.      d. energy.
- \_\_\_\_\_ 3. Sound waves are  
 a. transverse waves.      c. circular waves.  
 b. longitudinal waves.      d. polarized waves.



- \_\_\_\_\_ 4. The amplitude of the wave in the diagram above is  
 a. 6 m.      c. 0.5 m.  
 b. 3 m.      d. 1 m.
- \_\_\_\_\_ 5. A wave has a period of 0.25 seconds. The frequency of this wave is  
 a. 25 seconds.      c. 4 hertz.  
 b. 0.25 hertz.      d. 2 hertz.

- \_\_\_\_\_ 6. A child is sending pulses down a stretched rope at a rate of 2 pulses per second. The distance between the pulses is 5 meters. What is the speed of the wave?  
 a. 5 m/s      c. 2 Hz  
 b. 10 m/s      d. 2.5 m/s
- \_\_\_\_\_ 7. The frequency of a sound wave determines  
 a. the pitch of the sound.      c. how fast the sound travels.  
 b. how loud the sound is.      d. the magnitude of the compression.

Handwritten notes for question 6:

$$f = \frac{1}{0.25}$$

$$S = \frac{2 \times 5}{1}$$

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