#### Waves Study Guide Answer Key

- 1. What is the top of a wave called? Crest
- 2. What is the bottom of a wave called? Trough
- What is frequency? How many waves go past a point in one second; unit of measurement is hertz (Hz).
- 4. If a wave is traveling at 60 cm/second and has a wavelength of 15 cm, what is the frequency?

- What does amplitude measure? How far the medium moves from rest position (where it is when not moving).
- On the diagram below, indicate the distance that represents the wavelength of the wave and indicate the distance that represents the amplitude.

Amplitude (A)

- How many complete waves are there in the diagram above? Is it transverse or longitudinal?
  transverse
- 8. What is the difference between a transverse wave and a longitudinal wave? Transverse waves: Waves in which the medium moves at right angles (perpendicular) to the direction of the wave (looks like a jump rope). Longitudinal waves: Waves in which the medium moves back and forth in the same direction as the wave (looks like a slinky).
- Are sound waves transverse waves or longitudinal waves? Why? Longitudinal waves because they move back and forth in the same direction as the wave.
- 10. Why can't you calculate the frequency of the wave in the diagram? What information is missing? Missing wave speed or the period. f = V / λ or f = 1/T
- 11. What is the wavelength of a sound wave with a frequency of 50 Hz? (Speed of sound is 342 m/s)

G v = 342 m/s f = 50 Hz E  $\lambda$  = V / f S  $\lambda$  = 6.84 m U  $\lambda$  = ? S  $\lambda$  = (342 m/s) / 50 Hz

12. A sound wave in a steel rail has a frequency of 620 Hz and a wavelength of 10.5 m. What is the speed of sound in steel?

G  $\lambda = 10.5$  m f = 620 Hz E V = f \*  $\lambda$  S V = 6510 m/s U v = ? S V = 10.5 m \* 620 Hz

 Determine the frequency of a microwave 6.0 cm in length. ( A microwave is an electromagnetic wave. It travels through space at a speed of 3.0 x 10 ^8 m/s)

G  $\lambda = 6 \text{ cm} \rightarrow 0.06 \text{ m}$  E  $f = V / \lambda$  S  $f = 5 \times 10^9 \text{ Hz}$  V = 3.0 × 10 ^8 m/s S  $f = 3 \times 10^8 \text{ m/s}$  / 0.06 m

14. What is the period of the microwave in problem 13?

G  $f = 5 \times 10^9 \, Hz$  U T = ? E T = 1/f S T = 1/5 x  $10^9 \, Hz$  S T = 0.0000000002 s

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**Lingsheng Yao** 



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