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

3. 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?

   G $v = 60$ cm/s $\quad \lambda = 15$ cm $\quad$ E $\quad f = V / \lambda$ $\quad\quad\quad\quad\quad$ S $\quad f = 4$ Hz
   U $\quad f = ?$ $\quad\quad\quad\quad\quad\quad\quad\quad$ S $\quad f = (60$ cm/s$) / 15$ cm

5. What does amplitude measure? How far the medium moves from rest position (where it is when not moving).

6. On the diagram below, indicate the distance that represents the wavelength of the wave and indicate the distance that represents the amplitude.

7. How many complete waves are there in the diagram above? Is it transverse or longitudinal? 3, 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).

9. 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. $f = V / \lambda$ $\quad$ 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 $\quad f = 50$ Hz $\quad$ E $\lambda = V / f$ $\quad\quad\quad\quad$ S $\lambda = 6.84$ m
   U $\lambda = ?$ $\quad\quad\quad\quad\quad\quad\quad\quad$ 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 $\quad f = 620$ Hz $\quad$ E $\quad V = f * \lambda$ $\quad\quad\quad\quad$ S $\quad V = 6510$ m/s
   U $v = ?$ $\quad\quad\quad\quad\quad\quad\quad\quad$ S $\quad V = 10.5$ m $* 620$ Hz

13. 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 3.0×10 ^8 m/s)

   G $\lambda = 6$ cm $\rightarrow 0.06$ m $\quad\quad$ E $f = V / \lambda$ $\quad\quad\quad\quad$ S $f = 5 \times 10^9$ Hz
   $\quad\quad V = 3.0 \times 10$ ^8 m/s
   U $f = ?$ $\quad\quad\quad\quad\quad\quad$ S $f = 3 \times 10^8$ m/s$) / 0.06$ m

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

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

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