

## 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**  $v = 60 \text{ cm/s}$     $\lambda = 15 \text{ cm}$    **E**  $f = v / \lambda$    **S**  $f = 4 \text{ Hz}$   
**U**  $f = ?$    **S**  $f = (60 \text{ cm/s}) / 15 \text{ cm}$
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.  $f = v / \lambda$  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**  $v = 342 \text{ m/s}$     $f = 50 \text{ Hz}$    **E**  $\lambda = v / f$    **S**  $\lambda = 6.84 \text{ m}$   
**U**  $\lambda = ?$    **S**  $\lambda = (342 \text{ m/s}) / 50 \text{ Hz}$
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**  $\lambda = 10.5 \text{ m}$     $f = 620 \text{ Hz}$    **E**  $v = f * \lambda$    **S**  $v = 6510 \text{ m/s}$   
**U**  $v = ?$    **S**  $v = 10.5 \text{ m} * 620 \text{ Hz}$
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  $3.0 \times 10^8 \text{ m/s}$ )  
**G**  $\lambda = 6 \text{ cm} \rightarrow 0.06 \text{ m}$    **E**  $f = v / \lambda$    **S**  $f = 5 \times 10^9 \text{ Hz}$   
**U**  $f = ?$    **S**  $f = (3 \times 10^8 \text{ m/s}) / 0.06 \text{ m}$
14. What is the period of the microwave in problem 13?  
**G**  $f = 5 \times 10^9 \text{ Hz}$    **U**  $T = ?$    **E**  $T = 1 / f$    **S**  $T = 1 / 5 \times 10^9 \text{ Hz}$    **S**  $T = 0.0000000002 \text{ s}$

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## **Table of Contents 14 Study Guide Wave Properties Answer 234730**

1. Understanding the eBook 14 Study Guide Wave Properties Answer 234730
  - The Rise of Digital Reading 14 Study Guide Wave Properties Answer 234730
  - Advantages of eBooks Over Traditional Books
2. Identifying 14 Study Guide Wave Properties Answer 234730
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an 14 Study Guide Wave Properties Answer 234730
  - User-Friendly Interface
4. Exploring eBook Recommendations from 14 Study Guide Wave Properties Answer 234730
  - Personalized Recommendations
  - 14 Study Guide Wave Properties Answer 234730 User Reviews and Ratings
  - 14 Study Guide Wave Properties Answer 234730 and Bestseller Lists
5. Accessing 14 Study Guide Wave Properties Answer 234730 Free and Paid eBooks
  - 14 Study Guide Wave Properties Answer 234730 Public Domain eBooks
  - 14 Study Guide Wave Properties Answer 234730 eBook Subscription Services
  - 14 Study Guide Wave Properties Answer 234730 Budget-Friendly Options

6. Navigating 14 Study Guide Wave Properties Answer 234730 eBook Formats
  - ePub, PDF, MOBI, and More
  - 14 Study Guide Wave Properties Answer 234730 Compatibility with Devices
  - 14 Study Guide Wave Properties Answer 234730 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of 14 Study Guide Wave Properties Answer 234730
  - Highlighting and Note-Taking 14 Study Guide Wave Properties Answer 234730
  - Interactive Elements 14 Study Guide Wave Properties Answer 234730
8. Staying Engaged with 14 Study Guide Wave Properties Answer 234730
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers 14 Study Guide Wave Properties Answer 234730
9. Balancing eBooks and Physical Books 14 Study Guide Wave Properties Answer 234730
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection 14 Study Guide Wave Properties Answer 234730
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine 14 Study Guide Wave Properties Answer 234730
  - Setting Reading Goals 14 Study Guide Wave Properties Answer 234730
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of 14 Study Guide Wave Properties Answer 234730
  - Fact-Checking eBook Content of 14 Study Guide Wave Properties Answer 234730
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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this type factors then we have  $x^2 + bx + c = (x + m)(x + n)$   $x^2 + nx + mx + mn = x^2$

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