

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** $T = 0.0000000002 \text{ s}$

Section 2 Study Guide Wave Properties Answers

Liying Dong



Section 2 Study Guide Wave Properties Answers:

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Table of Contents Section 2 Study Guide Wave Properties Answers

1. Understanding the eBook Section 2 Study Guide Wave Properties Answers
 - The Rise of Digital Reading Section 2 Study Guide Wave Properties Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Section 2 Study Guide Wave Properties Answers
 - 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 Section 2 Study Guide Wave Properties Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Section 2 Study Guide Wave Properties Answers
 - Personalized Recommendations
 - Section 2 Study Guide Wave Properties Answers User Reviews and Ratings
 - Section 2 Study Guide Wave Properties Answers and Bestseller Lists
5. Accessing Section 2 Study Guide Wave Properties Answers Free and Paid eBooks
 - Section 2 Study Guide Wave Properties Answers Public Domain eBooks
 - Section 2 Study Guide Wave Properties Answers eBook Subscription Services
 - Section 2 Study Guide Wave Properties Answers Budget-Friendly Options
6. Navigating Section 2 Study Guide Wave Properties Answers eBook Formats

- ePub, PDF, MOBI, and More
 - Section 2 Study Guide Wave Properties Answers Compatibility with Devices
 - Section 2 Study Guide Wave Properties Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Section 2 Study Guide Wave Properties Answers
 - Highlighting and Note-Taking Section 2 Study Guide Wave Properties Answers
 - Interactive Elements Section 2 Study Guide Wave Properties Answers
 8. Staying Engaged with Section 2 Study Guide Wave Properties Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Section 2 Study Guide Wave Properties Answers
 9. Balancing eBooks and Physical Books Section 2 Study Guide Wave Properties Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Section 2 Study Guide Wave Properties Answers
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Section 2 Study Guide Wave Properties Answers
 - Setting Reading Goals Section 2 Study Guide Wave Properties Answers
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Section 2 Study Guide Wave Properties Answers
 - Fact-Checking eBook Content of Section 2 Study Guide Wave Properties Answers
 - 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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