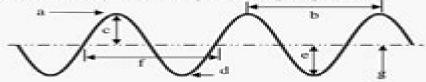
# 1-D Waves, Worksheet 5

Key

The illustration below shows a series of transverse waves. Label each part in the space provided.

a. crest
b. wavelength
c. amplitude
d. trough
c. amplitude
f. wavelength

g. equilibrium position



Fill in the blanks:

2. Waves do transfer energy from one place to another, they do not transfer matter

3. The distance from one crest (or trough) to the next is the wavelength.

4. The highest point on a transverse wave is the crest while the lowest part is the trough

5. The \_\_\_amplitude\_\_\_ is the height of the wave.

6. Below are a number of series of waves. Underneath each diagram write the numbers of waves in the series.



a. Which of the above has the biggest amplitude? \_\_A\_\_\_

b. Which of the above has the shortest wavelength? \_C\_\_

c. Which of the above has the longest wavelength? \_\_D\_

7. Express in words and mathematically the relationship between

a. period and frequency: The period is inversely proportional to the frequency.  $T \propto \frac{1}{f}$  or  $T = \frac{1}{f}$ 

b. wavelength and frequency: The wavelength is inversely proportional to the frequency.

$$\lambda \sim \frac{1}{f}$$
 or  $\lambda = \frac{v}{f}$ 

c. wavelength and period: The wavelength is directly proportional to the period.

$$\lambda \propto T$$
 or  $\lambda = vT$ 

- 8. Consider a wave generator that produces 10 pulses per second. The speed of the waves is 300 cm/s:
  - a. What is the wavelength of the waves?

10 pulses per second is a frequency of 10 Hz.  $\lambda = \frac{V}{f} = \frac{300 \text{ cm/s}}{10 \frac{1}{s}} = 30.0 \text{ cm}$ 

b. What happens to the wavelength if the frequency of pulses is increased?

Since they are inversely proportional, if the frequency is increased, the wavelength decreases.

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#### **Table of Contents Mechanical Waves Worksheet Mr Hwang Answers**

- 1. Understanding the eBook Mechanical Waves Worksheet Mr Hwang Answers
  - The Rise of Digital Reading Mechanical Waves Worksheet Mr Hwang Answers
  - o Advantages of eBooks Over Traditional Books
- 2. Identifying Mechanical Waves Worksheet Mr Hwang 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 Mechanical Waves Worksheet Mr Hwang Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mechanical Waves Worksheet Mr Hwang Answers

- Personalized Recommendations
- Mechanical Waves Worksheet Mr Hwang Answers User Reviews and Ratings
- Mechanical Waves Worksheet Mr Hwang Answers and Bestseller Lists
- 5. Accessing Mechanical Waves Worksheet Mr Hwang Answers Free and Paid eBooks
  - Mechanical Waves Worksheet Mr Hwang Answers Public Domain eBooks
  - Mechanical Waves Worksheet Mr Hwang Answers eBook Subscription Services
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  - o ePub, PDF, MOBI, and More
  - Mechanical Waves Worksheet Mr Hwang Answers Compatibility with Devices
  - Mechanical Waves Worksheet Mr Hwang Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mechanical Waves Worksheet Mr Hwang Answers
  - Highlighting and Note-Taking Mechanical Waves Worksheet Mr Hwang Answers
  - Interactive Elements Mechanical Waves Worksheet Mr Hwang Answers
- 8. Staying Engaged with Mechanical Waves Worksheet Mr Hwang Answers
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Waves Worksheet Mr Hwang Answers
- 9. Balancing eBooks and Physical Books Mechanical Waves Worksheet Mr Hwang Answers
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Mechanical Waves Worksheet Mr Hwang Answers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Waves Worksheet Mr Hwang Answers
  - Setting Reading Goals Mechanical Waves Worksheet Mr Hwang Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Waves Worksheet Mr Hwang Answers

- Fact-Checking eBook Content of Mechanical Waves Worksheet Mr Hwang 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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