

Key for Waves Unit 2, Worksheet 5

1. The illustrations below depict a series of transverse waves. Label each part in the space provided.

- a. crest _____
- b. wavelength _____
- c. amplitude _____
- d. trough _____
- e. antinode _____
- f. node _____
- g. equilibrium position _____



Fill in the blanks:

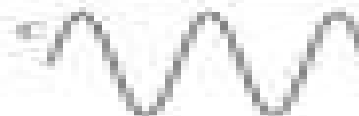
2. Waves carry energy from one place to another.
3. The highest point on a transverse wave is the crest, while the lowest part is the trough.
4. The amplitude is the height of the wave.
5. The distance between wave in the horizontal is the wavelength.
6. Below are a number of series of waves. Underneath each diagram write the number of waves in the series.



1 wave



1 wave



1 wave



0.5 wave

- a. Which of the waves has the biggest amplitude? A
- b. Which of the waves has the shortest wavelength? C
- c. Which of the waves has the longest wavelength? B

7. Express in words and mathematically the relationships 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:

$$\lambda \propto \frac{1}{f} \text{ or } \lambda = \frac{v}{f}$$
- c. wavelength and period: The wavelength is directly proportional to the period:

$$\lambda \propto T \text{ or } \lambda = vT$$

8. Consider a wave generator that produces 50 pulses per second. The speed of the waves is 100 cm/s.

- a. What is the wavelength of the waves?
 50 pulses per second is a frequency of 50 Hz. $\lambda = \frac{v}{f} = \frac{100 \text{ cm/s}}{50} = 2 \text{ cm}$
- b. What happens to the wavelength if the frequency is increased?
 Since they are inversely proportional, if the frequency is increased, the wavelength decreases.

Mechanical Waves In 1d Ws 2 V3 1 Key

J Rink



Mechanical Waves In 1d Ws 2 V3 1 Key:

Unveiling the Energy of Verbal Artistry: An Psychological Sojourn through **Mechanical Waves In 1d Ws 2 V3 1 Key**

In a world inundated with monitors and the cacophony of quick communication, the profound power and emotional resonance of verbal art often diminish in to obscurity, eclipsed by the constant onslaught of sound and distractions. However, set within the musical pages of **Mechanical Waves In 1d Ws 2 V3 1 Key**, a fascinating perform of literary beauty that impulses with organic emotions, lies an memorable journey waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this interesting opus courses visitors on a psychological odyssey, gently revealing the latent potential and profound influence embedded within the delicate internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is key subjects, dissect its fascinating publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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