

1-D Waves, Worksheet 5

Key

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

- crest
- wavelength
- amplitude
- trough
- amplitude
- wavelength
- equilibrium position



Fill in the blanks:

- Waves **do** transfer energy from one place to another, they **do not** transfer matter.
- The distance from one crest (or trough) to the next is the wavelength.
- The highest point on a transverse wave is the crest while the lowest part is the trough.
- The amplitude is the height of the wave.
- Below are a number of series of waves. Underneath each diagram write the numbers of waves in the series.



1 1/2



1



2 1/2



1/2

- Which of the above has the biggest amplitude? A
- Which of the above has the shortest wavelength? C
- Which of the above has the longest wavelength? D

7. Express in words and mathematically the relationship between

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

$$\lambda \propto \frac{1}{f} \text{ or } \lambda = \frac{v}{f}$$

- 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 10 pulses per second. The speed of the waves is 300 cm/s:

- What is the wavelength of the waves?

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

- 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.

Mechanical Waves Worksheet Mr Hwang Answers

DJ Losen



Mechanical Waves Worksheet Mr Hwang Answers:

Enjoying the Melody of Appearance: An Emotional Symphony within **Mechanical Waves Worksheet Mr Hwang Answers**

In a global consumed by screens and the ceaseless chatter of quick conversation, the melodic elegance and emotional symphony created by the written term frequently diminish in to the background, eclipsed by the constant noise and distractions that permeate our lives. Nevertheless, located within the pages of **Mechanical Waves Worksheet Mr Hwang Answers** an enchanting literary value full of organic feelings, lies an immersive symphony waiting to be embraced. Crafted by an elegant composer of language, this interesting masterpiece conducts visitors on a mental trip, skillfully unraveling the hidden songs and profound impact resonating within each carefully crafted phrase. Within the depths with this poignant analysis, we will discover the book is main harmonies, analyze their enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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