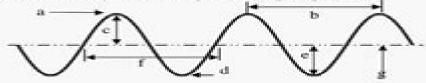
1-D Waves, Worksheet 5

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? $\underline{}$
- 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.

Mechanical Waves Review Worksheet Answers

Michael Rajnik

Mechanical Waves Review Worksheet Answers:

Whispering the Strategies of Language: An Psychological Journey through Mechanical Waves Review Worksheet Answers

In a digitally-driven world where screens reign great and immediate interaction drowns out the subtleties of language, the profound strategies and emotional nuances concealed within words often get unheard. However, set within the pages of **Mechanical Waves Review Worksheet Answers** a charming literary treasure sporting with raw thoughts, lies a fantastic journey waiting to be undertaken. Written by a talented wordsmith, that marvelous opus attracts readers on an introspective journey, gently unraveling the veiled truths and profound affect resonating within the very cloth of every word. Within the psychological depths with this poignant evaluation, we can embark upon a sincere exploration of the book is core styles, dissect its fascinating writing style, and fail to the strong resonance it evokes deep within the recesses of readers hearts.

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