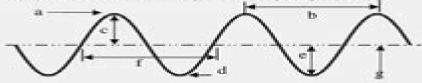
1-D Waves, Worksheet 5

Key

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





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 great while the lowest part is the grouph

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.

$$\lambda = \frac{1}{f}$$
 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.

Answers To Waves 33

Mr. Rohit Manglik

Answers To Waves 33:

Physiology Question-Answer Mr. Rohit Manglik,2024-07-30 A student friendly question answer guide that covers core physiology topics through concise answers and explanations ideal for medical and paramedical exam preparation

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The Complete Guide to ECGs James H. O'Keefe, 2008 A comprehensive study guide to improve ECG interpretation skills Cover

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