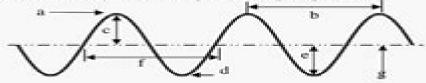
1-D Waves, Worksheet 5

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.

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