

Name _____

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Waves Unit 2, Worksheet 5

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

- a. Crest
 b. wavelength
 c. amplitude
 d. trough
 e. amplitude
 f. wavelength
 g. line of equilibrium



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 from one crest to the next is the wavelength.
 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? Diagram 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

$$T = \frac{1}{f}$$

$$T = \frac{1}{f}$$

inversely proportional to frequency

- b. wavelength and frequency

$$v = f\lambda$$

wavelength is inversely proportional to frequency

- c. wavelength and period

~~$$v = f\lambda$$~~

$$v = \frac{\lambda}{T}$$

directly proportional

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?

$$v = f\lambda \quad \lambda = \frac{v}{f} \rightarrow \frac{300}{10} = 30 \text{ cm}$$

- b. What happens to the wavelength if the frequency of pulses is increased?

if $f \uparrow$ then $\lambda \downarrow$

Part B Concept Review Waves

Bruno Andò, Salvatore Graziani



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