

Name K. Fu

Date \_\_\_\_\_

Period \_\_\_\_\_

## 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. wave length  
 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 wave length.  
 6. Below are a number of series of waves. Underneath each diagram write the numbers of waves in the series.

1.512.5.5

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 betweena. period and frequency

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

inversely proportional to frequency

b. wavelength and frequency

$$v = f\lambda$$

wavelength is inversely proportional to frequency

c. wavelength and period

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

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  $f \uparrow \quad \lambda \downarrow$

# Physics Waves Worksheet Answers Ch 12

**Mark Ellse,Chris Honeywill**

## Physics Waves Worksheet Answers Ch 12:

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British Association for the Advance ment of Science held in Glasgow in September 1928 1 2 An Introduction to the Study of Wave Mechanics motion will leave the matter with kinetic energy equal in amount to the differencebetween the energy  $h\nu$  which it has received and the work it has had to expend to get out of the matter Now this is precisely the experimental law of the photo electric effect in the form which has been verified in succession for all the radiations from the ultra violet region to X and y rays

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