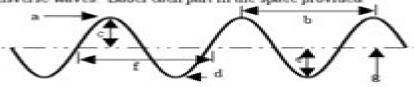
#### WAVES WORKSHEET

#### Name:

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



Fill in the blanks

- 2 Waves carry \_\_\_\_\_\_ from one place to another
- 3. The highest point on a transverse wave is the \_\_\_\_\_\_ while the lowest part is the \_\_\_\_\_
- 4. The distance from one crest to the next is the
- 5. Below are a number of series of waves. Underneath each diagram write the numbers of waves in the series.

A



- a. Which of the above has the biggest amplitude? \_\_\_\_\_
- b. Which of the above has the shortest wavelength? \_\_\_\_\_
- c. Which of the above has the longest wavelength? \_\_\_\_\_
- Express in words and mathematically the relationship between a period and frequency
  - b. wavelength and frequency
  - c. wavelength and period
- Consider a wave generator that produces 10 pulses per second. The speed of the waves is 300. cm/s.
   What is the wavelength of the waves?
  - b. What happens to the wavelength if the frequency of pulses is increased?

# **Mechanical Wave Behavior Worksheet Answer**

**Yijin Wang** 

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