

WAVES WORKSHEET

Name: _____

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

- a. _____
- b. _____
- c. _____
- d. _____
- e. _____
- f. _____
- g. _____



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.

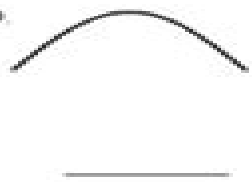
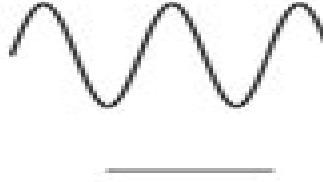
A.



C.



D.



- 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? _____

- 6. Express in words and mathematically the relationship between
 - a. period and frequency
 - b. wavelength and frequency
 - c. wavelength and period
- 7. 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?
 - b. What happens to the wavelength if the frequency of pulses is increased?

Mechanical Wave Behavior Worksheet Answer

Jianjun Gao



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