



Properties of Waves Worksheet

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: 7th

Answer the following questions according to the given instructions:

**1. What is the top of a wave called?**

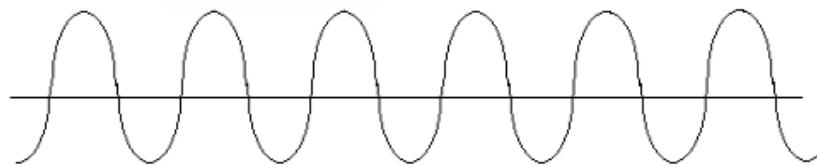
- A. Trough
- B. Ceiling
- C. Crest
- D. Apex

**2. What is the bottom of a wave called?**

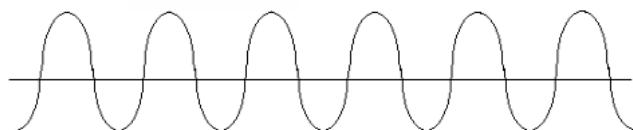
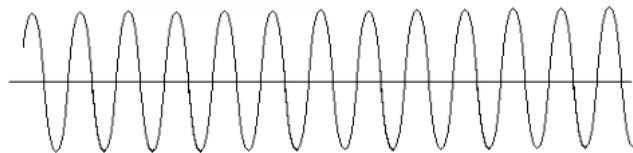
- A. Minima
- B. Crest
- C. Valley
- D. Trough

**3. Label the parts of the given wave. Use the box given below as reference.**

Crest	Trough
Amplitude	Resting point
Wavelength	



**4. Circle which of these waves has more frequency.**



How do you know?: \_\_\_\_\_



5. Look at the waves below, and answer the following questions.

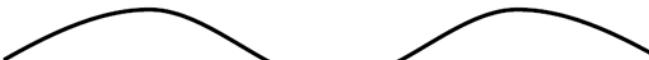
(i)



(ii)



(iii)



- A. Which wave has the largest amplitude? \_\_\_\_\_.
- B. Which waves has highest frequency? \_\_\_\_\_.
- C. Which wave has the largest wavelength? \_\_\_\_\_.

6. Draw a wave with high amplitude and a short wavelength below:

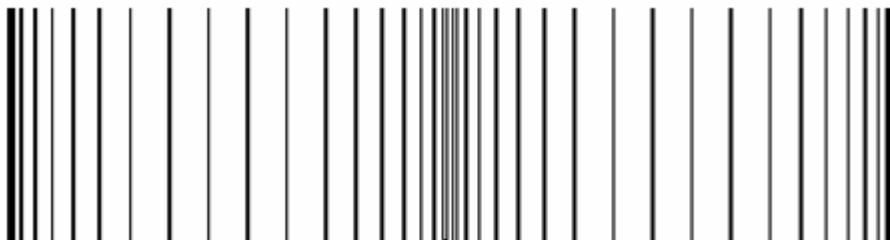
7. Draw a wave with low amplitude and a long wavelength below:

8. Draw a wave with high frequency and high energy:



9. Draw a wave with low frequency and low energy:

10. Label the parts of the longitudinal wave below. (wavelength, compression, rarefaction):



11. Label the parts of the transverse wave below (wavelength, amplitude, resting point, crest, trough):

