Waves Worksheet

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 ______ is the height of the wave.
- 5. The distance from one crest to the next is the
- 6. Below are a number of series of waves. Underneath each diagram write the numbers of waves in the series.



7. Use the five illustrations of waves drawn below to answer the following questions:



- 7. The following questions refer to the diagram to the right:
 - (a) Is this wave transverse or longitudinal?
 - (b) Letter H represents a _____ and letter I represents a _____.
 - (c) Letter G represents a _____.

Frequency (f) is the number of waves that pass through a point in a given amount of time. The units for frequency are Hertz (Hz) which tells us how many waves go by per second. To find the frequency just divide the number of waves by the number of seconds:

 $f = \frac{\# \text{ of waves}}{\text{seconds}}$

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**The time from the beginning to the end of the wave in each situation is 1 second.

