**![C:\Users\Heather\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\7MQAZRH6\MCj02327230000[1].wmf]()Wave Measurements**



One full wave (cycle)

Wave train – two or more waves


Amplitude – measures the energy of a transverse wave
    a) measured from the equilibrium position to the top of a crest or the bottom
        of a trough (see vertical arrow)
Wavelength – length of a single wave cycle (horizontal arrow double sided arrow)

There are 4 waves in this wave train

**Wave 1**


a) How many waves are there in this wave train? \_\_\_\_\_

b) Wavelength \_\_\_\_\_\_ cm   c) Amplitude \_\_\_\_\_\_\_ cm

**Wave 2**


a) How many waves are there in this wave train? \_\_\_\_\_

b) Wavelength \_\_\_\_\_\_ cm   c) Amplitude \_\_\_\_\_\_\_ cm

**Wave 3**

a) How many waves are there in this wave train? \_\_\_\_\_

b) Wavelength \_\_\_\_\_\_ cm   c) Amplitude \_\_\_\_\_\_\_ cm

**Wave 4**

a) How many waves are there in this wave train? \_\_\_\_\_

b) Wavelength \_\_\_\_\_\_ cm   c) Amplitude \_\_\_\_\_\_\_ cm

**Wave 5**

a) How many waves are there in this wave train? \_\_\_\_\_

b) Wavelength \_\_\_\_\_\_ cm   c) Amplitude \_\_\_\_\_\_\_ cm

**Wave 6**

a) How many waves are there in this wave train? \_\_\_\_\_

b) Wavelength \_\_\_\_\_\_ cm  c) Amplitude \_\_\_\_\_\_\_ cm

**Wave 7**
If this entire wave train is 30 meters long what is the wavelength of this wave?

