

## Transverse Waves

### Part A:

Draw a diagram of your wave. Label the *node*, *crest*, and *trough*.

### Part B:

1. Find the *amplitude* of your wave by measuring the distance from the resting line to a crest: \_\_\_\_\_ cm.
2. Distance from one node to the next is  $1/2$  wavelength: \_\_\_\_\_ cm. Multiply this by 2 to find the *wavelength* ( $\lambda$ ): \_\_\_\_\_ cm per wave.
3. Number of crests in 10 seconds: \_\_\_\_\_
4. Divide your answer to item 3 (\_\_\_\_\_) by 10 to find *frequency* ( $f$ ) in wave cycles per second: \_\_\_\_\_ (wave/s)
5. Calculate the *velocity* ( $v$ ) of the wave using this equation:  
 $v = f \times \lambda$

Challenge: Can you figure out which units to use?

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