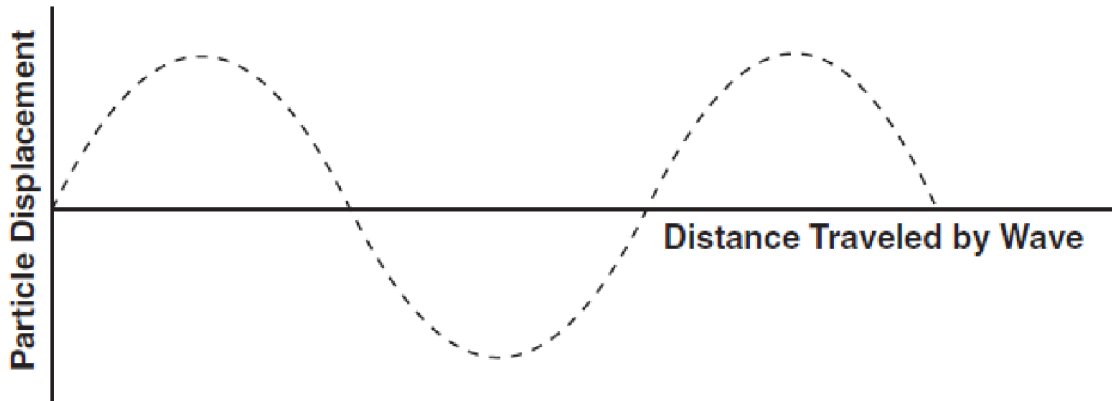


**In-class problem set 10 – You may check your answers with Mr. Skapetis, but
you must first have answers to check.**

NAME: _____

Number _____



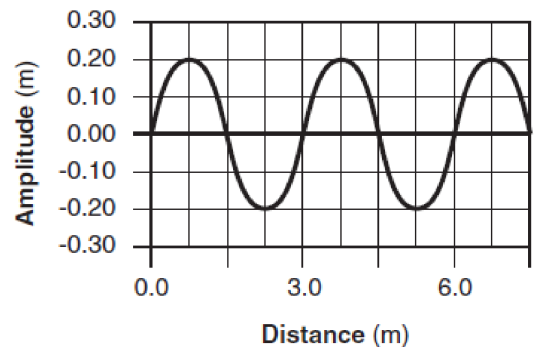
1. The diagram above represents a transverse wave traveling through a material. On the diagram above, draw a wave having BOTH a smaller amplitude, AND the same wavelength as the pictured wave.

Justification:

2. The diagram represents a wave moving to the right at a speed of 60 m/s.

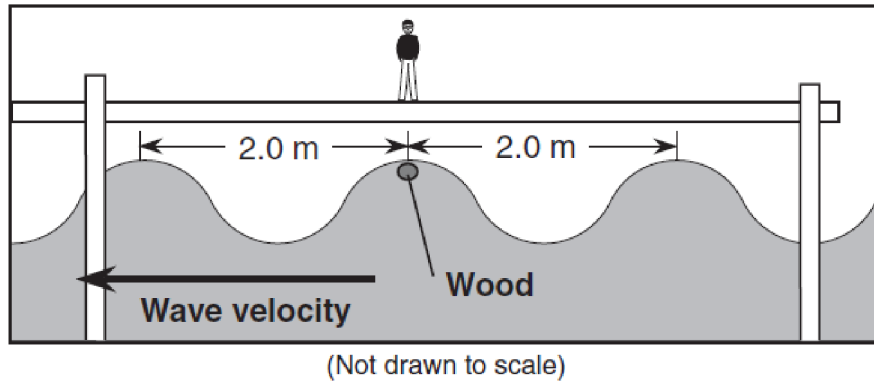
(a) Calculate the frequency of this wave.

Justification:



Answer: _____

- (b) Explain in one sentence, as you would to a grandparent, what your answer means about the wave. Do not use the word “hertz” in your sentence..



Questions 3-5: A student standing on a dock observes a piece of wood floating on the water as shown below. As a water wave passes, the wood moves up and down, rising to the top of a wave crest every 5.0 seconds.

3. Calculate the frequency of the water waves.

Justification with a calculation::

Answer: _____

4. What is the wavelength of the water waves?

Justification with a fact:

Answer: _____

5. Calculate the speed of the water waves.

Justification with a calculation:

Answer: _____