



# PHYSLETS ANSWER SHEET

WS2A2

## Waves / Set 2 / Animation 2

Name \_\_\_\_\_ Class \_\_\_\_\_

<Show all work on calculations. Include proper units. Explanations require complete sentences.>

1) What is the wavelength of the first two waves

wave 1  $\lambda =$  \_\_\_\_\_ m

wave 2  $\lambda =$  \_\_\_\_\_ m

2) What is the frequency of the first two waves

wave 1  $f =$  \_\_\_\_\_ Hz

wave 2  $f =$  \_\_\_\_\_ Hz

3) What is the speed of each wave

wave 1  $v =$  \_\_\_\_\_ m/s

wave 2  $v =$  \_\_\_\_\_ m/s

4) Which wave has the greater amplitude?

5) The superposition of the two waves does not produce a standing wave. Describe what wave 2 need to look like (amplitude, speed, direction, and frequency) in order to combine with wave 1 to produce a standing wave.