

PHYSLETS ANSWER SHEET

WS2A5

Waves / Set 2 / Animation 5

Name	Class
<show a<="" th=""><th>all work on calculations. Include proper units. Explanations require complete sentences.></th></show>	all work on calculations. Include proper units. Explanations require complete sentences.>
1)	In this animation set the two waves produce a standing wave. Explain why a standing wave has been produced in this case. Discuss amplitude, speed, direction, and frequency of the two interfering waves.
2)	By how many wavelengths are the two waves out of phase when total destructive interference occurs?
3)	By how many wavelengths are the two waves out in phase when maximum constructive interference occurs?