Physics Interactive Quiz : Interference/Diffraction

Name:

	#	4	question	Answer	0 <score< th=""></score<>
			Hz is the tone generated by a pair of speakers 4 meters apart. What is the wavelength of the sound if Vsound is 340 m/s?		
#	1	400			0
#	2	20	meters is the distance to the central maximum. What is the distance from this point to each speaker?		0
#	2	20	you now move sideways until you hear no tone: what is the difference (meters) in path length to each speaker?		0
	5		you continue until the sound is loud again, what is the path difference now?		
#	4	20			0
#	5	60	cm is the separation between two bright dots on a screen 4 meters away using a laser and a grating with $d = 1.89 \text{ EE-6}$ meters. What is the wavelength of the laser?		0
#	6	60	what angle is this forming?		0
			what will be the distance in meters from the central maximum to the next bright spot?		
#	7	60			0
#	8	60	what will be the angle of the first dark spot?		0
	_		what distance (meters) will this be on the screen?		
#	9	60			0
	10		If the wavelength of the laser were doubled, how many meters would be the distance from the CM to the first bright spot?		
#	10	60		{	U

Extra Credit: