Decibels, Intensity, Distance Physics II Chapter 12			Period
1.	. The sound level 10 m from a wood chipper i at that distance?	is 80 dB. What is the va	alue of the acoustic intensity
2	. What is the <i>total</i> acoustic power of the we distributed spherically and uniformly around		that the acoustic energy is
3.	. What will be the intensity of the wood chi	apper sound 100 m from	m the wood chipper?
4	. What will be the sound level 100 m from t	the wood chipper?	
5.	. What will be the intensity of the wood chiral	ipper sound 20 m from	the wood chipper?
6	. What will be the sound level 20 m from th	ne wood chipper?	

7.	If the sound level of a fire alarm is increased by 10 dB, by what factor does the acousintensity increase?		
8.	If a sound level is increased from 80 dB to 100 dB, by what factor does the sound intensity change?		
9.	If a sound level is increased from 80 dB to 120 dB, by what factor does the sound intensity change?		
10.	If a sound level is decreased from 80 dB to 40 dB, by what factor does the sound intensity change?		
11.	Greek mythology, the Sirens (Greek singular: $\Sigma \epsilon \iota \rho \eta \nu$ ) were dangerous creatures, who lured earby sailors with their enchanting music and singing voices to shipwreck on the rocky coast their island. If the sound level of a Siren at 100 m distance is 80 dB, how far away would be under the to reduce the sound level to 74 dB? to 40 dB?		