NameAP Statistics	Date	_Per
Interpretation of Confidence Intervals and	Levels	
From a sleep lab experiment, a 95% confidence interval for the mean number of hours that adults sleep at night is found to be (6.55,8.25). Identify which of the following are correct interpretations of this confidence interval , which are correct interpretations of the confidence level , and which are incorrect statements? <i>If the statement is not correct</i> , <i>explain why</i> .		
1. 95% of the time, the number of hours people sleep is betwee hours.	en 6.55 hours a	and 8.25
2. 95% of the confidence intervals constructed by this method number of hours that adults sleep at night.	l will contain tl	ne mean
3. We are 95% confident that the mean number of hours that a between 6.55 hours and 8.25 hours.	adults sleep at	night is
4. We are 95% confident that the mean number of hours that \pm .85.	adults sleep at	night is 7.4

5. 95% of the confidence intervals we construct will give us the interval (6.55,8.25).

6.	There is 95% probability that the mean number of hours that adults sleep is between 6.55 and 8.25 hours.
7.	If 100 random samples of the given size are picked and a 95% confidence interval is calculated from each, then the mean number of hours that adults sleep will be in approximately 95 of the resulting intervals.
8.	We are 95% certain that the number of hours that adults sleep is 7.4 hours, with a margin of error of .85 hour.
9.	This 95% confidence interval is an interval computed from sample data by a method that has a 95% probability of producing an interval containing the true number of hours that adults sleep.
10	This confidence interval consists of values determined from sample information. Associated with the interval is a 95% level, which measures one's confidence that the number of hours that adults sleep lies within 6.55 hours and 8.25 hours.