In-class exercise week 4 - solution Topic: hypothesis tests, p-value

Which of the following statements are correct?

the sample are normal	ze 10, the t-test should only be carried out if the observations in lly distribution. False
sample.	for detecting an existing effect, it helps to work with a large
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	et significant, one can conclude that there is no effect. False
d) Two 99% CIs for the population mean are determined from two independent samples. If the two confidence intervals do not overlap, then a two-sample t-test will provide a p-value ≤ 2%.	
•	False
Interpretation of the p-value In a clinical trial 465 patients were treated with interferon (a protein) and 462 patients were treated with placebo. A suitable and correctly applied test yields as result that the treatment effect of interferon is larger than the placebo effect (p-value = 0.02).	
•	Interferon didn't have a better effect than placebo. False
b) Interferon yields a re □ True x	elevant improvement. False
,	98% of the patients a clinically relevant positive effect. False
•	or a superior interferon effect (at significance level 5%). False