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1.	Which of the following statements accurately describe the null hypothesis? Select all that apply.	0.5 / 1 point
	The alternative hypothesis typically assumes that observed data does not occur by chance. The alternative hypothesis typically assumes that observed data occurs by chance.	
	This should not be selected     Review the video that introduces hypothesis testing     ∴	
	The null hypothesis typically assumes that observed data does not occur by chance.  The null hypothesis typically assumes that observed data occurs by chance.	
2.	What claim states that the results of a test or experiment are not explainable by	1 / 1 point
	chance alone?	17 7 point
	P-value	
	Statistical significance	
	Confidence level	
	Significance level	
3.	When would a data professional reject the null hypothesis?	1 / 1 point
	When their p-value is less than their significance level	
	When their significance level is less than their p-value	
	When their test statistic is less than their p-value	
	When their p-value is less than their test statistic	

4.	A data professional conducts a hypothesis test. When they draw their conclusion, they commit a type I error. Which of the following statements describe their error? Select all that apply.	1 / 1 point
	They reject a null hypothesis that is actually true.	
	They conclude their result occurred by chance when in fact it is statistically significant.	
	They fail to reject a null hypothesis that is actually false.  They conclude their result is statistically significant when in fact it occurred by	
	chance.  Correct	
5.	A data professional on a marketing team conducts a hypothesis test to compare the mean time customers spend on two different versions of a company's website. To start, they state the null hypothesis and the alternative hypothesis. What should they do next?	0 / 1 point
	Find the margin of error	
	Reject or fail to reject the null hypothesis  Find the p-value	
	Choose a significance level	
	(X) Incorrect	
	Review <u>the video that introduces hypothesis testing</u> □.	
6.	A data professional conducts a hypothesis test. They choose a significance level of	1 / 1 point
	1%. They calculate a p-value of 0.01%. What conclusion should they draw?	
	Fail to reject the null hypothesis.	
	Fail to reject the alternative hypothesis.	
	Reject the alternative hypothesis.  Reject the null hypothesis.	
7.	In a one-sample hypothesis test of the mean, what are the typical options for the alternative hypothesis? Select all that apply.	1 / 1 point
	The population mean is not equal to an observed value.	

	✓ Correct
	The population mean is greater than an observed value.
	The population mean is less than an observed value.
	The population mean is equal to an observed value.
8.	A data professional conducts a hypothesis test to compare the mean annual sales of two different restaurants in the same restaurant chain. They write the following code: scipy.stats.ttest_ind(a=530, b=550, equal_var=FALSE)
	What does the argument b=550 refer to?
	Whether or not the population variance of the two samples is assumed to be equal  Significance level
	Observations from the second sample
	P-value