

Class Time: _____ Name: _____

SOLUTION SHEET: Hypothesis Testing for Single Mean and Single Proportion

a. Ho: _____ b. Ha: _____

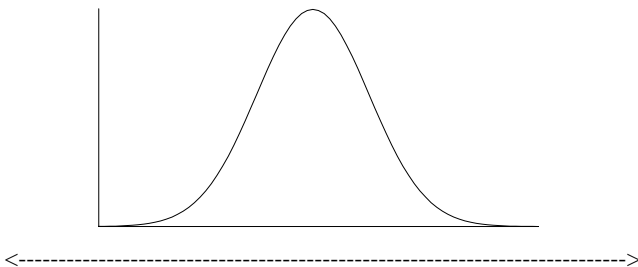
c. In words, CLEARLY state what your random variable \bar{X} or P' represents.

d. State the distribution to use for the test. _____

e. Test Statistic: t or z = _____

f. p-value = _____ In 1 – 2 complete sentences, explain what the p-value means for this problem.

g. Use the previous information to sketch a picture of this situation. CLEARLY, label and scale the horizontal axis and shade the region(s) corresponding to the p-value.

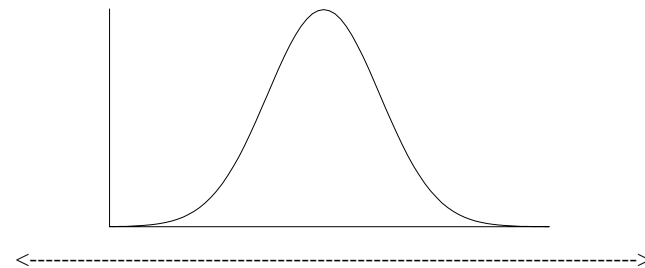


h. Indicate the correct decision (“reject” or “do not reject” the null hypothesis), the reason for it, and write an appropriate conclusion, using COMPLETE SENTENCES.

alpha	decision	reason for decision
_____	_____	_____

Conclusion: _____

i. Construct a 95% Confidence Interval for the true mean or proportion. Include a sketch of the graph of the situation. Label the point estimate and the lower and upper bounds of the Confidence Interval.



Confidence Interval: (_____ , _____)

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a. H_0 : _____ b. H_a : _____

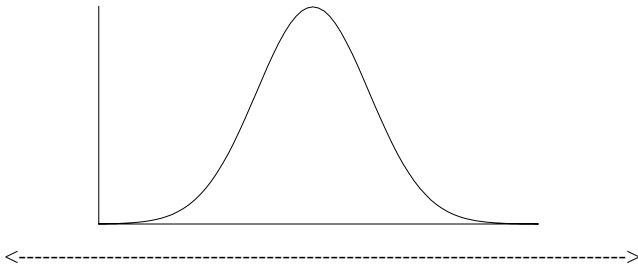
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d. State the distribution to use for the test. _____

e. Test Statistic: t or z = _____

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g. Use the previous information to sketch a picture of this situation. CLEARLY, label and scale the horizontal axis and shade the region(s) corresponding to the p -value.

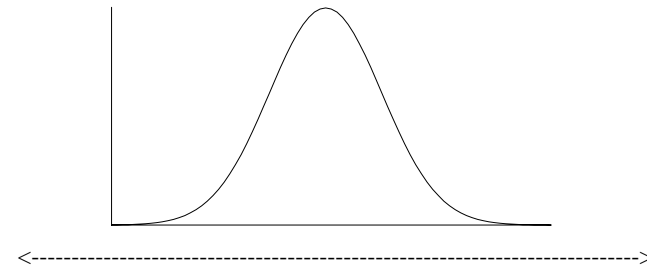


h. Indicate the correct decision (“reject” or “do not reject” the null hypothesis) and write appropriate conclusions, using COMPLETE SENTENCES.

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