Confidence Intervals/Hypothesis Tests Definitions and Concepts

| 1. | When setting up a null hypothesis, which of the following symbols will we never use: $=$, $<$, $>$, \neq ? |
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| 2. | In words, what is the difference between a population measurement and a sample measurement? |
| 3. | Describe in words what a confidence interval tells us about an unknown population mean. |
| 4. | True or False: A wider confidence interval means a larger confidence level. Why? |
| 5. | How does increasing the following affect the width of the confidence interval: critical value, sample size, standard deviation? |
| 6. | If we don't know the population standard deviation when constructing a confidence interval, will we need to find a z critical value or a t critical value? |

| 7. | Describe in words what a P-value represents. |
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| 8. | Explain the difference between a proportion, p , and a P-value. |
| 9. | When we conclude a hypothesis test, we either reject a null hypothesis or fail to reject a null hypothesis. Why do we use the language "fail to reject" instead of "accept"? |
| 10. | If a hypothesis test wanted to determine if we found significant evidence that Hunter students' test scores are greater than 85, write out the alternative hypothesis to our test. |
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