| L | AST NAME (Pr | int):FIRST: |
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| St | tatistics 111 | Quiz 16 |
| 1. | | ow that listening to metal bands decreases life expectancy. Assume the average U.S. ears with standard deviation 8 years. You want to prove your claim at the 0.05 level. |
| | What | is the probability of Type I error? |
| | What | is the probability that you fail to reject the null hypothesis when it is true? |
| | A san | nple of 36 metalheads has an average lifespan of 72 years. What is your test statistic? |
| | What | is your P-value? |
| | In a clear sente | nce, what conclusion do you draw? |
| 22. | students in a cl | ants to show that students who take his class get salaries greater than \$62K. Of 10 ass of 20, the mean starting salary is \$65K with a sample sd of \$5K. is his alternative hypothesis? |
| | What | is the test statistic? |
| | What | kind of critical value does he use? (Include df if necessary.) |
| | What | is his P-value? (Give a range if necessary.) |
| | In words, what | is his conclusion? Use $\alpha = 0.05$. |
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