

Self-Check 9.5

Name: _____ Date: _____ Row: _____

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1. In a survey of 703 randomly selected workers, 61% got their jobs through networking. Use a 0.01 significance level to test the claim that most workers get their jobs through networking. 1) Null and Alternative Hypothesis
 2. Calculator Work
 3. Test Statistic and P-Value
 4. Conclusion about the null hypothesis
 5. Final conclusion that addresses the original claim
2. Researchers collected a simple random sample of the times that 81 college students required to earn their bachelor's degrees. The sample has a mean of 4.8 years and a standard deviation of 2.2 years. Use a 0.05 significance level to test the claim that the mean time for all college students is greater than 4.5 years.

1. Null and Alternative Hypothesis
2. Calculator Work

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3. Test Statistic and P-Value
 4. Conclusion about the null hypothesis
 5. Final conclusion that addresses the original claim
3. In the manual "How to Have a Number One the Easy Way," it is stated that a song "must be no longer than three minutes and thirty seconds (210 seconds)". A simple random sample of 40 current hit songs results in a mean length of 252.5 seconds. Assume that the standard deviation of song lengths is 54.5 sec. Use a 0.05 significance level to test the claim that the sample is from a population of songs with a mean greater than 210 seconds. 1) Null and Alternative Hypothesis
2. Calculator Work
 3. Test Statistic and P-Value
 4. Conclusion about the null hypothesis
 5. Final conclusion that addresses the original claim

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