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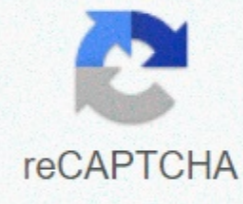
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Ap statistics inference review group project

Thank you for your participation! Thank you for your participation! If you see this message, it means that we have problems loading external resources on our website. If you're behind a web filter, make sure that the *.kastatic.org and *.kasandbox.org domains are unlocked. 1. Find the critical values of the 97% confidence interval. -2,17 and +2,17 2. A critical value(s) shall be found for the bilateral hypothesis test where a = 0,04 -2,05 and +2,05 3. For the single-stood hypothesis test (Ha: p > po), find the critical value(s) where = 0,04 +1.75.4. For both sides, the test statistical p-value z = 2,17 2(0,015) = 0.03 5 shall be found for the test. Finds the p-value for test statistic z = 2,17 for the one-sided test. 0.015 6. Write a general sentence to interpret the confidence interval. We are ___% confident that the parameter is between ___ and ___. 7. Write a general sentence to interpret what ___% means. If we took repeated samples from the population and found confidence intervals, there would be a parameter at ___% intervals. 8. Write a general sentence to interpret the test statistics. Our statistics are ___ standard deviations above/below the assumption of Ho. 9. Write a general sentence to interpret the p-value. There is a ___% probability of getting a result like our statistic, randomly assuming that Ho is right. 10. Joe Bob wants to verify the claim that most people like his chili. He randomly selects 50 people, makes them eat their chili, and asks for their opinion. 28 of them say they like His chili. statistics: p-hat = 28/50 = .56 hypothesis value for parameter: po = 0,5 a. Check the hypothesis test conditions. ·   The population size shall be at least ten times the size of the sample. ·   The sampling distribution is approximately normal because 50(5) and 50(1-5) are greater than or equal to 10 ·   The sample was selected at random. b. Write hypotheses. Ho: p = 0.5p is the proportion of people who like Joe Bob's chili Ha: p > 0.5 c. Find and interpret test statistics. Test stats: z = (p-hat – po)/squrt (po(1-po)/n) z = (.56 - .5) / squrt (.5 (1-.5)/50) = 0.85 Our statistics (0.56) are 0.85 from the standard above the assumption that exactly half of people like chili. d. Find and interpret the p value. p-value: .20 There is a 20% probability of getting a result as extreme or extreme than our statistics (0.56), randomly assuming exactly half of people like chili. E. Find the critical value(s) using a = 0,10. z* = + 1,28 f. Plot the sampling distribution and plot the sketch test statistics and p-value. G. Write a conclusion based on test statistics. Because our test statistic (0.84) is less extreme than the critical value (1.28), we don't reject Ho. We do not have sufficient that more than half of people like Joe Bob's chili. H. Write a conclusion based on the value p. Because our p value (.20) is not less than the significance level (a = 0.10), we do not reject Ho. We don't have enough evidence that more than half of people like Joe Bob's chili. Chili.

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