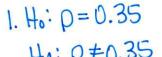


1.09 is less extreme than 2.06 1.09 is not in the critical region marked by 2.06

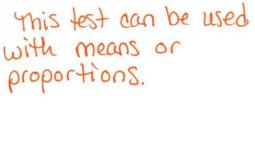
The Critical Value Approach

- 1. State the Null and Alternative Hypotheses
- 2. Specify the Significance Level and Find the Critical Value(s) $\chi = 0.05$
- 3. Calculate the Test Statistic $\vec{X} = 216$ S = 28 $\Omega = 26$
- 4. Report the Results in a Conclusion Fail to reject the null hypothesis. There is not enough evidence at a 5% level of significance to conclude that the population mean is not equal to 210.



HA: P + 0.35

Two-Tailed Hypothesis Test



0.0021 = NORM.S. DIST (-2.87, 1)

Double 0.0021 to compare to x=0.05 -> (0.0021)(2)=0.0042 0.0042 < 0.05

v0.025

The P-Value Approach

1. State the Null and Alternative Hypotheses

2. Specify the Significance Level $\chi = 0.05$

3. Calculate the Test Statistic and P-value $\bar{p} = 0.23$ $\eta = 130$

Reject the null hypothesis. There is enough evidence at a 5% level of significance to conclude that the population proportion is not equal 4. Report the Results in a Conclusion to 0.35.

Ha: P< 0.38 One-Tailed Hypothesis Test Right or Left tail This test can be done with means or 3. $Z = \frac{0.34 - 0.38}{\sqrt{\frac{(0.38)(0.61)}{400}}} = \frac{-0.04}{0.0243} = -1.65$ proportions.

> -1.65 is less extreme than -2.326 -1.65 is not in the critical region marked by -2.326

1. Ho: $\rho \ge 0.38$ 2. $\alpha = 0.01$

Z 1.01 = 2.326

loft tailed test

USe -2.326

The Critical Value Approach

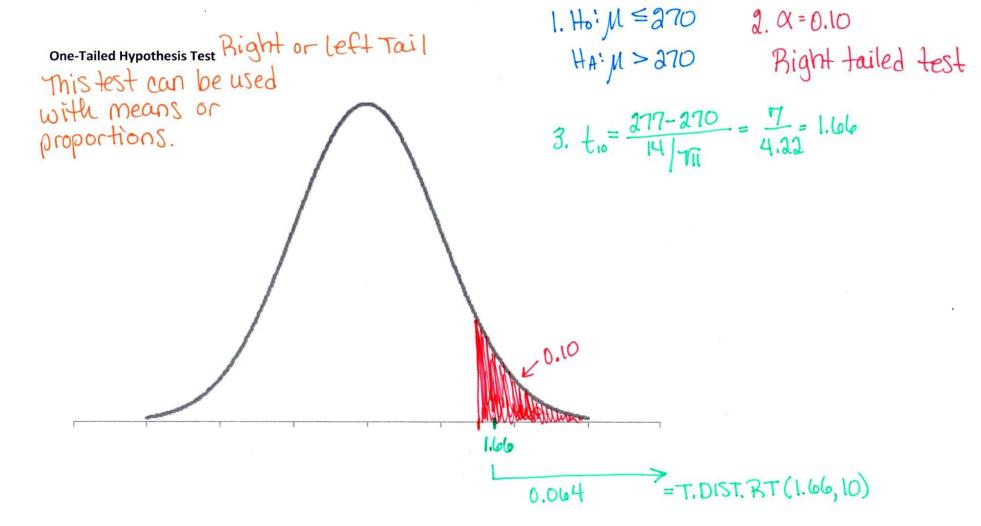
1. State the Null and Alternative Hypotheses

2.326 -1.65

3. Calculate the Test Statistic $\vec{p} = 0.34$ $\Omega = 400$

4. Report the Results in a Conclusion

Fail to reject the null hypothesis. There is not enough evidence at a 1% level of significance to conclude that the population proportion is less than 0.38.



The P-Value Approach

0.064 < 0.10

1. State the Null and Alternative Hypotheses

2. Specify the Significance Level X = 0.10

3. Calculate the Test Statistic and P-value $\bar{\chi} = 277 - 5 = 4 - 0 = 1$

4. Report the Results in a Conclusion

Beject the null hypothesis. There is enough evidence at a 10% level of significance to conclude that the population mean is greater than 270.