UTAustinX: UT.7.20x Foundations of Data Analysis - Part 2

Week 5: Hypothesis Testing (More Than Two Group Means) > Lab > Draw Conclusions

🔖 Bookmark

Reflect on the Question ✓   Analyze the Data ✓   Draw Conclusions

Primary Research Questions

1. Are some studios more successful in keeping their films in theaters longer?
2. Do some studios earn a greater percentage of their earnings domestically than others?

(10/10 points)

Write Your Conclusion

Answer the question and support your answer with statistics:

This analysis examined 151 ▾   ✓   **Answer:** 151 top-grossing films produced by five major

studios. Visual examination of the data through boxplots shows no violation of the approximate equality of [variance ▾] ✔ **Answer:** variance assumption across the five major studios. Analysis [revealed ▾] ✔ **Answer:** revealed a difference in the number of days a film spent in the theater, by studio ($F_{(4,146)}$= [5.354 ▾] ✔ **Answer:** 5.354 , $p < 0.05$). In a [Tukey HSD ▾] ✔ **Answer:** Tukey HSD test, [Fox ▾] ✔ **Answer:** Fox films stayed in the theater significantly longer (155 days) than both [Universal ▾] ✔ **Answer:** Universal (130 days) and Sony Studios (114 days). Sony studios was also significantly lower than [Warner Brothers ▾] ✔ **Answer:** Warner Brothers studios (146 days).

An additional analysis [did not ▾] ✔ **Answer:** did not reveal a significant difference in the percentage of earnings domestically, across the five different studios ($F_{(4,146)}$=2.097, p= [0.084 ▾] ✔ **Answer:** 0.084 .

You have used 1 of 1 submissions

Lab due May 03, 2016 at 17:00
UTC

Problem Set

Problem Set due May 03, 2016
at 17:00 UTC

POWERED BY
OPENedX