



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



Bookmarks

- ▶ Important Pre-Course Survey
- ▶ Contact Us
- ▶ How To Navigate the Course
- ▶ Discussion Board
- ▶ Office Hours
- ▶ Week 0: Introduction to Data (Optional Review)
- ▶ Week 1: Sampling
- ▶ Week 2: Hypothesis

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

Bookmark

Reflect on the Question

Analyze the Data

Draw Conclusions

Primary Research Question

1. Does a film's rating (PG, PG-13, or R) impact its cost to produce?
2. Does a film's rating (PG, PG-13, or R) influence its IMDB score?

(7/7 points)

Write Your Conclusion


Answer the question and support your answer with statistics:

This analysis examined 151 top-grossing films produced by five major studios. The average cost of a film was found to vary depending on its MPAA rating ($F=$ **Answer:** 13.1 ,


Testing (One Group Means)

- ▶ Week 3: Hypothesis Testing (Two Group Means)
- ▶ Week 4: Hypothesis Testing (Categorical Data)
- ▼ Week 5: Hypothesis Testing (More Than Two Group Means)

Readings


Reading Check due May 03, 2016 at 17:00 UTC 

Lecture Videos

Comprehension Check due May 03, 2016 at 17:00 UTC 

R Tutorial Videos

Pre-Lab


Pre-Lab due May 03, 2016 at 17:00 UTC 

Lab


$p < .05$). In a Tukey HSD test, **PG-13** ✓ **Answer:** PG-13 films were shown to cost significantly more on average (\$127M) than PG films (\$ **75** ✓ **Answer:** 75 M). PG-13 films fell just shy of costing significantly more than **R** ✓ **Answer:** R rated films ($p=.053$). The average IMDB score of a film **does not** ✓ **Answer:** does not appear to vary with MPAA rating ($F=0.3$, $p=$ **0.74** ✓ **Answer:** 0.74). The average ratings for all three categories of film were close to **7** ✓ **Answer:** 7 on a scale of 1-10.

[Click here for a video explanation of how to answer this question.](#)

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 

© All Rights Reserved



© edX Inc. All rights reserved except where noted. EdX, Open edX and the edX and Open EdX logos are registered trademarks or trademarks of edX Inc.

POWERED BY
OPEN 

