

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



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- Week 0: Introduction to Data (Optional Review)
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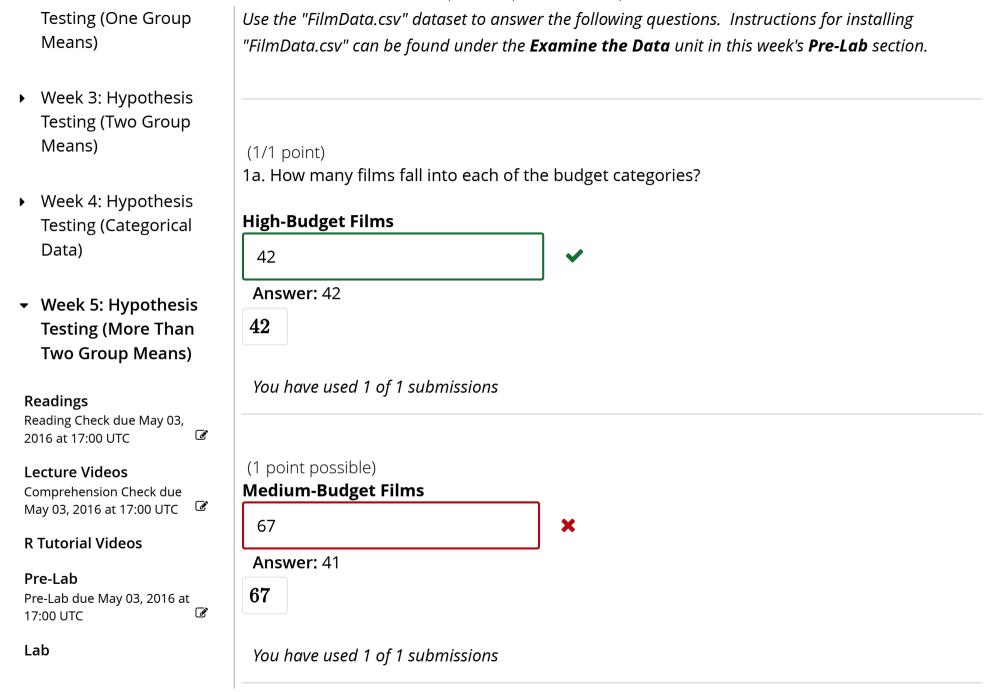
Week 5: Hypothesis Testing (More Than Two Group Means) > Problem Set > Question 1

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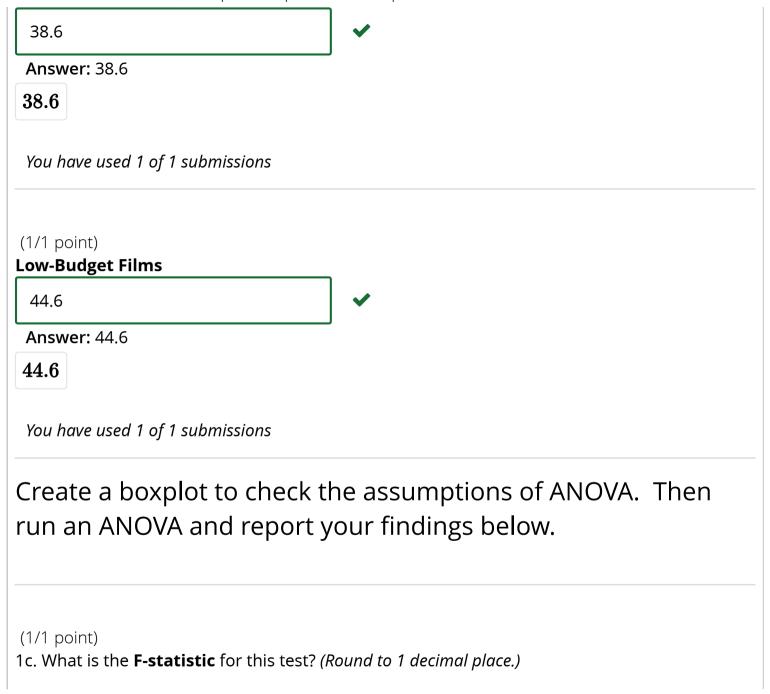
Question 1

Do low-budget movies make a different percentage of their profits domestically than movies with medium- or high-budgets?

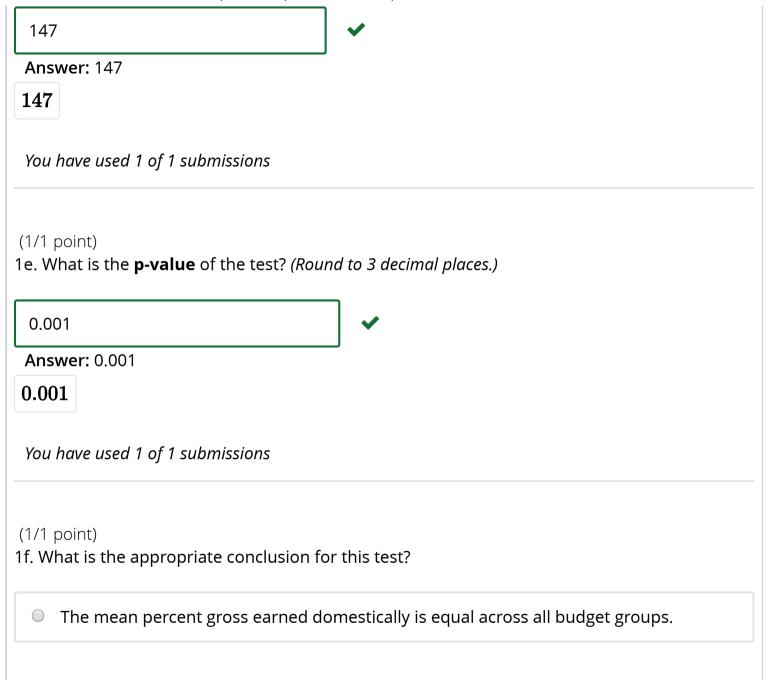
- 1. Suppose films with a budget less than \$100 Million are considered "low-budget"; films with a budget of \$100-150 Million are considered "medium-budget", and those with a budget of \$150 million or more are "high-budget."
- 2. Create a new categorical variable in the dataset that defines each film under these criteria.
- 3. Use this data to answer the following questions.



Lab due May 03, 2016 at 17:00 UTC	(1/1 point)
Problem Set	(1/1 point) Low-Budget Films
Problem Set due May 03, 2016 at 17:00 UTC	67 ✓
	Answer: 67
	67
	You have used 1 of 1 submissions
	(1/1 point) 1b. Calculate the mean percent domestic for each group and enter them below. (Report answers as percentages rounded to one decimal place.)
	High-Budget Films
	37.6
	Answer: 37.6
	37.6
	You have used 1 of 1 submissions
	(1/1 point)
	Medium-Budget Films



7.6	✓	
Answer: 7.6		
7.6		
You have used 1 of 1 submissions		
(1/1 point) 1d. What are the degrees of freedom ?		
Numerator Degree of Freedom		
2	✓	
Answer: 2		
2		
You have used 1 of 1 submissions		
(1/1 point)		
Denominator Degree of Freedom		



The mean percent gross earned domestically is NOT equal across all budget groups. You have used 1 of 1 submissions (1/1 point) 1g. Run a **Tukey HSD post-hoc** analysis and chose the correct adjusted p-values for each pairwise comparison listed below. Low vs. High 0.002 ▼ **Answer: 0.002** You have used 1 of 1 submissions (1/1 point) Low vs. Medium 0.010 ▼ **Answer: 0.010** You have used 1 of 1 submissions

(1/1 point)

Medium vs. High

0.898 ▼

~

Answer: 0.898

You have used 1 of 1 submissions

(1/1 point)

1h. What is the appropriate conclusion for the post-hoc analysis?

- Both low-budget and medium-budget films earn a greater percentage of their profit domestically than high-budget films.
- High-budget films earn a greater percentage of their profit domestically than either low-budget or high-budget films.
- Medium-budget films earn the most percentage of their profit domestically.
- Low-budget films earn a greater percentage of their profit domestically than either medium-budget or high-budget films. ✓

You have used 1 of 1 submissions

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