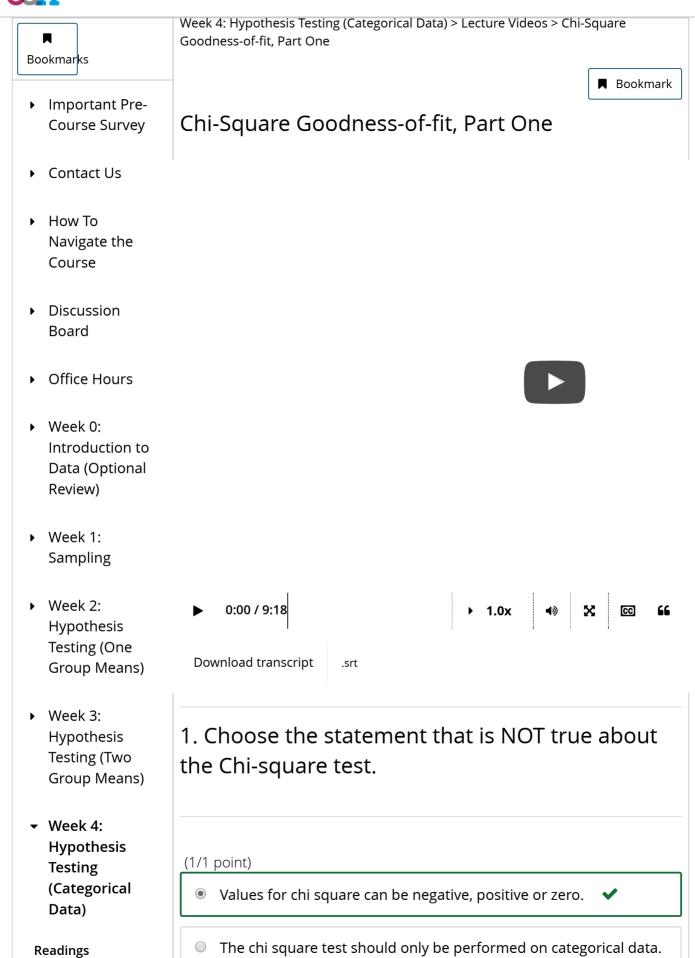


UTAustinX: UT.7.20x Foundations of Data Analysis - Part 2



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

Lab due May 03, 2016 at 17:00 UTC

Problem Set

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

	The shape of the chi square distribution depends on degrees of
free	dom.

• The equation for calculating chi square is the same for the test of goodness of fit and the test of independence.

2. A major snack food company claims that its chips are "America's favorite." A statistics class tests this claim by asking a sample of 90 random students on campus to select their favorite chip from the company's (Brand A) and two other brands (Brand B and Brand C). Below are the results of how many students selected each brand in their taste test.

Brand A	Brand B	Brand C
38	28	24

(1/1 point)

2a. What is the distribution model for the null hypothesis?

- 50% Brand A, 25% Brand B, 25% Brand C
- 0% for Brand A
- 33.3% for all three categories.
- Cannot be determined; it is not specified.

2b. Input or identify the following values necessary for this chi-square test Assume a confidence level of 0.05.
(4/4 points) Expected value of Brand A: (Report as a whole number.) 30
Answer: 30 30
Expected value of Brand B: (Report as a whole number.)
Answer: 30
Expected value of Brand C: (Report as a whole number.)
30 ✓ Answer: 30
Degrees of freedom: (Report as a whole number.)
2 Answer: 2
2
(1/1 point) Chi-square statistic: (Rounded to 2 decimal places.) -2.54
© 6.02
● 3.47
O 2.24

0	4.78
0	2.25
0	6.56
•	5.99 🗸
	point) That conclusion should be drawn about the popularity of Brand A2
	point) hat conclusion should be drawn about the popularity of Brand A?
:. W	hat conclusion should be drawn about the popularity of Brand A?
. W	
c. W	hat conclusion should be drawn about the popularity of Brand A? There were more people that liked Brand A in our sample, so
E. W	hat conclusion should be drawn about the popularity of Brand A? There were more people that liked Brand A in our sample, so
Bra	hat conclusion should be drawn about the popularity of Brand A? There were more people that liked Brand A in our sample, so nd A is the favorite of Americans.
Bra	hat conclusion should be drawn about the popularity of Brand A? There were more people that liked Brand A in our sample, so nd A is the favorite of Americans. There is no evidence to suggest that Americans prefer Brand A to
Bra •	hat conclusion should be drawn about the popularity of Brand A? There were more people that liked Brand A in our sample, so and A is the favorite of Americans. There is no evidence to suggest that Americans prefer Brand A to other brands tested.
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