Readings Discussion **Syllabus Download R and RStudio R Tutorials** Courseware **Course Info Contact Us Office Hours Progress** Community

## Question 3

Approximately 13% of the world's population is left-handed, but is this proportion the same across men and women?

To answer this question, you decide to collect data from a random sample of adults from your neighborhood, with the following results:

ID	Gender	Dominant Hand
1	M	L
2	М	R
3	F	R
4	М	R
5	F	R
6	F	L

1 of 7 02/27/2015 07:48 PM

۵
<del>o</del>
I

F	L
М	R
F	R
F	R
M	L
F	R
M	R
М	R
F	R
М	R
M	R
F	R
F	L
М	R
F	R
	M         F         M         F         M         M         F         M         M         F         F         F         M

Question 3   Problem Set   UT.7.01x Courseware   edX	https://courses.edx.org/courses/UTAustinX/UT.7.01x/3T2014/courseware/cbd7
3a. Which of these is the appropriate null hy	pothesis for this test?
Gender and hand-dominance a	re independent. 💙
Gender and hand-dominance a	re NOT independent
Hide Answer You have used 0 of 1 submi	ssions
(1 point possible)	
3b. What would be the <b>degrees of freedom</b>	and the <b>critical value</b> for this analysis, assuming $\alpha$ = 0.05?
Degrees of Freedom	
Answer: 1	
Hide Answer You have used 0 of 1 submi	ssions
(1 point possible)	
Critical Value (Round to 2 decimal places.)	

3 of 7 02/27/2015 07:48 PM

Questio	on 3   Problem Set	UT.7.01x Courseware   edX	https://courses.edx.org/courses/UTAustinX/UT.7.01x/3T2014/courseware/cbd75
A	<b>Answer:</b> 3.84		
	Hide Answer	You have used 0 of 1 submissions	
	l point possibl	e) <b>expected</b> counts for <b>Males</b> ? (Round to 2	decimal places.)
Left-handed Males			
A	<b>Answer:</b> 2.38		
	Hide Answer	You have used 0 of 1 submissions	
	l point possible	e) lales (Round to 2 decimal places.)	

4 of 7

Answer: 7.62  Hide Answer You have used 0 of 1 submissions		
Hide Answer Tou Have used 0 by T Subithissions		
(1 point possible)  3d. What are the <b>expected</b> counts for <b>Females</b> ? (Round to 2 decimal places.)		
Left-handed Females		
Answer: 2.62		
Hide Answer You have used 0 of 1 submissions		
(1 point possible) <b>Right-handed Females</b> (Round to 2 decimal places.)		
Right-Handed Females (Nound to 2 decimal places.)		

**Answer:** 8.38

02/27/2015 07:48 PM

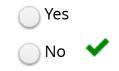
**Hide Answer** 

You have used 0 of 1 submissions

(1 point possible)

3e. Are all relevant conditions met to run this analysis?

Help



**Hide Answer** 

You have used 0 of 1 submissions



EdX offers interactive online classes and MOOCs from the world's best universities. Online courses from MITx, HarvardX, BerkeleyX, UTx and many other universities. Topics include biology, business, chemistry, computer science, economics, finance, electronics, engineering, food and nutrition, history, humanities, law, 6 of 7 literature, math, medicine, music, philosophy, physics, science, statistics and more. EdX is a non-profit online initiative created by

## About edX

**About** 

News

Contact

FAQ

edX Blog

Follow Us



Twitter



Facebook



Meetup



in LinkedIn

founding partners Harvard and MIT. Question 3 | Problem Set | UT.7.01x Courseware | edX

© 2015 edX Inc.

trademarks or trademarks of edX Inc.

Terms of Service and Honor Code

Privacy Policy (Revised 10/22/2014)

EdX, Open edX, and the edX and Open edX logos are registered

ate to edX S+ Google+ https://courses.edx.org/courses/UTAustinX/UT.7.01x/3T2014/courseware/cbd75... Donate to edX Jobs at edX

7 of 7 02/27/2015 07:48 PM