

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



- ▶ 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 Testing (One Group Means)
- ▶ Week 3: Hypothesis Testing (Two Group Means)
- Week 4: **Hypothesis Testing** (Categorical Data)

Readings

Week 4: Hypothesis Testing (Categorical Data) > Problem Set > Question 3

■ Bookmark

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:

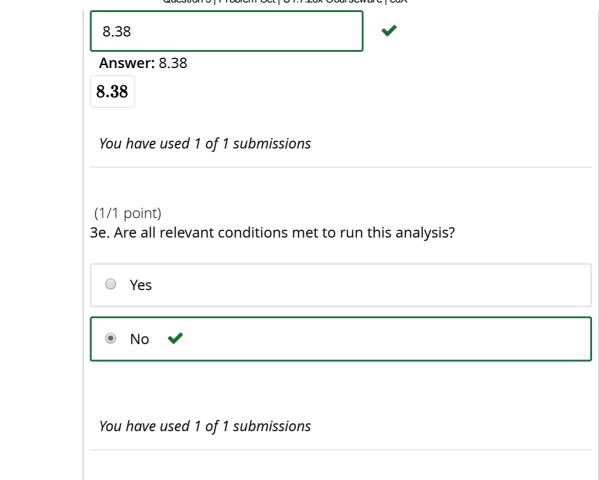
ID	Gender	Dominant Hand
1	М	L
2	М	R
3	F	R
4	М	R
5	F	R
6	F	L
7	F	L
8	М	R
9	F	R
10	F	R
11	М	L
12	F	R
13	М	R
14	М	R
15	F	R

3		Question 3 Problem	Set UT.7.20x Courseware edX		
Reading Check due May 03, 2016 at 17:00	16	М	R		
UTC Lecture Videos	17	М	R		
Comprehension Check due May 03, 2016 at	18	F	R		
17:00 UTC	19	F	L		
R Tutorial Videos Pre-Lab	20	М	R		
Pre-Lab due May 03, 2016 at 17:00 UTC	21	F	R		
Lab Lab due May 03, 2016 at 17:00 UTC	(1/1 n cint	.)			
Problem Set Problem Set due May 03, 2016 at 17:00 UT	(1/1 point 3a. Which		appropriate null hypothesis for this test?		
● Gender and hand-dominance are independent.					
Gender and hand-dominance are NOT independent					
You have used 1 of 1 submissions					
(1/1 point) 3b. What would be the estimated degrees of freedom and the critical value for this analysis, assuming a = 0.05? Degrees of Freedom					
	Answer:	1			
	1				
	You have	used 1 of 1 subi	missions		
	(1 point possible) Critical Value (Round to 2 decimal places.)				
	5.99		×		

Answer: 3.84

5.99

You have used 1 of 1 submissions
(1/1 point) 3c. What are the expected counts for Males ? (Round to 2 decimal places.)
Left-handed Males
2.38
Answer: 2.38
2.38
You have used 1 of 1 submissions
(1/1 point)
Right-handed Males (Round to 2 decimal places.)
7.62 Answer: 7.62
7.62
You have used 1 of 1 submissions
(1/1 point) 3d. What are the expected counts for Females ? (Round to 2 decimal places.) Left-handed Females
2.62
Answer: 2.62
2.62
You have used 1 of 1 submissions
(1/1 point) Right-handed Females (Round to 2 decimal places.)



© 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.

















