

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 4

■ Bookmark

Question 4

A telephone survey asked a random sample of Indiana voters about their home internet usage, as well as what type of community (rural, suburban or urban) they lived in.

Of the 123 survey respondents, 28 were from rural areas, 42 were from suburban areas, and 53 were from urban areas. Thirteen rural respondents, 35 suburban respondents, and 50 urban respondents said they had access to internet at home.

(1/1 point)

4a. What is the appropriate null hypothesis for this test?

Home internet access and community type are independent.



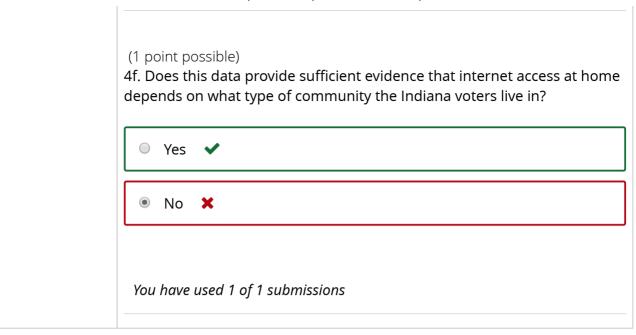
Home internet access and community type are not independent.

You have used 1 of 1 submissions

(1 point possible)

4b. What proportion of respondents **had** internet access at home? (Round to 3 decimal places.)

Question 4 | Problem Set | UT.7.20x Courseware | edX Reading Check due 0.464 May 03, 2016 at 17:00 UTC **Answer: 0.797 Lecture Videos** 0.464Comprehension Check due May 03, 2016 at 17:00 UTC You have used 1 of 1 submissions **R Tutorial Videos** Pre-Lab Pre-Lab due May 03, (1/1 point) 2016 at 17:00 UTC 4c. What proportion of respondents did NOT have internet access at Lab home? (Round to 3 decimal places.) Lab due May 03, 2016 at 17:00 UTC 0.203 **Problem Set** Problem Set due May **Answer: 0.203** 03, 2016 at 17:00 UT 🗗 0.203 You have used 1 of 1 submissions (1/1 point) 4d. How many rural residents would we expect to have home internet? Please use a rounded proportion you calculated above. (Round to 2 decimal places.) 22.31 **Answer: 22.32** 22.31 You have used 1 of 1 submissions (1/1 point) 4e. How many **urban** residents would we **expect NOT to have** home internet? Please use a rounded proportion you calculated above. (Round to 2 decimal places.) 10.77 **Answer: 10.76** 10.77You have used 1 of 1 submissions



© 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.

















