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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 point possible)
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.

| Hide Answer | *You have used 0 of 1 submissions* |

(1 point possible)

4b. What proportion of respondents **had** internet access at home? *(Round to 1 decimal place.)*

Answer: 0.8

| Hide Answer | *You have used 0 of 1 submissions* |

(1 point possible)

4c. What proportion of respondents **did NOT have** internet access at home? *(Round to 1 decimal place.)*

Answer: 0.2

| Hide Answer | *You have used 0 of 1 submissions* |

(1 point possible)

4d. How many **rural** residents would we **expect to have** home internet? *(Round to 2 decimal places.)*

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Answer: 22.31

Hide Answer   *You have used 0 of 1 submissions*

(1 point possible)

4e. How many **urban** residents would we **expect NOT to have** home internet? *(Round to 2 decimal places.)*

Answer: 10.77

Hide Answer   *You have used 0 of 1 submissions*

(1 point possible)

4f. Does this data provide sufficient evidence that internet access at home depends on what type of community the Indiana voters live in?

Yes ✔

No

Hide Answer   *You have used 0 of 1 submissions*

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