UTAustinX: UT.7.10x Foundations of Data Analysis - Part 1

Week 4: Bivariate Distributions (Categorical Data) > Problem Set > Question 4

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Question 4

A movie theater conducted a survey to determine the movie preferences of men and women. They asked a total of 130 adults (50 women and 80 men) to choose their favorite movie genre out of four choices: Action, Comedy, Horror, or Romance. The results of their survey are shown below.

	Women	Men
Action	12%	35%
Comedy	34%	25%
Horror	30%	32.50%
Romance	24%	7.50%

(1/1 point)

4a. Based on the above information, do **Gender** and **Movie** preferences appear to be independent?

  ○ Yes

  ◉ No ✔

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(1/1 point)

4b. What is the probability that a randomly chosen person from the survey prefers **Action** films? *(Report as a proportion rounded to 2 decimal places.)*

| 0.26 | ✔ **Answer:** .26

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Problem Set
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0.26

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(1/1 point)
4c. What is **P(Action|Women)**? *(Report as a proportion rounded to 2 decimal places.)*

0.12   ✔   **Answer:** 0.12

0.12

You have used 1 of 1 submissions

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