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Readings

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Mar 15, 2016 at 18:00
UTC

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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

You have used 1 of 1 submissions

(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.)




Answer: .26

R Tutorial Videos


Pre-Lab

Pre-Lab due Mar 15,
2016 at 18:00 UTC 

Lab

Lab due Mar 15, 2016
at 18:00 UTC 

Problem Set

Problem Set due Mar
15, 2016 at 18:00 UTC 

► Week 5: Linear
Functions

0.26

You have used 1 of 1 submissions

(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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