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## Question 4

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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%

problem

1/1 point (graded)

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

☐ Yes

☒ No ✓

Submit

You have used 1 of 1 attempt

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## problem

1/1 point (graded)

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.*)

.26



.26

Submit

You have used 1 of 1 attempt

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## problem

1/1 point (graded)

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



You have used 1 of 1 attempt

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