

Course > Week... > Probl... > Ques...

## **Question 4** 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%

## problem

1/1 point (graded)

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



## problem

1/1 point (graded)

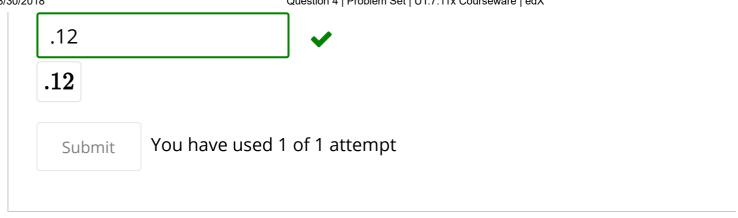
4b. What is the probability that a randomly chosen person from the survey prefers **Action** films? (*Report as a proportion rounded to 2 decimal places.*)



## problem

1/1 point (graded)

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



© All Rights Reserved