Na	me Date
	LAB 2E: The Horror Movie Shuffle Response Sheet
Dir	ections: Record your responses to the lab questions in the spaces provided.
Pla	aying with permutations
Init	tial thoughts
•	How many variables and observations are contained in the data and what are the possible values of the variables?
•	Which gender had more survivors? Write down a few sentences as to how you came to your conclusion. Be sure to look at both the <i>counts</i> and <i>percentages</i> of survivors in each group before deciding.
•	Calculate the difference between the percentage of females who survived and the percentage of males who survived. Is the difference large enough to conclude that women tend to survive

more often than men?

Tally whoa ...!

The last question on the previous slide can be answered using the line of code below. Why?

Examining differences

Do the shuffle!

Run the following and write down the resulting table on a piece of paper.

Name	Date
name	Date

	LAB 2E: The Horror Movie Shuffle Response Sheet
•	Now run the following to randomly reassign each survival status to each observation. Compare the resulting table to the one you wrote down.
Let	's compare
•	How many people, in total, survived the slasher film before shuffling? How many people survived after shuffling?
	How has shuffling our data shanged the percentage of women who survived compared to man
•	How has shuffling our data changed the percentage of women who survived compared to men who survived?
	Is the difference in percentages from your shuffled data larger or smaller than the
	difference from the original data? Interpret what this means.
•	Explain why shuffling our data one time is not enough to decide if the difference seen in our actual data occurs by chance or not.

Detecting differences

In how many simulations did a higher percentage of males survive than females?

Name Date
rano

LAR 2F: The Horror Movie Shuffle

	Response Sheet
•	What is the largest difference in percentages of survival between males and females?
	What patterns are emerging from these simulations?
No	w what?
Tin	ne to decide
•	What was the typical difference in percentages between men and women survivors?
•	Does the actual difference occur very often by chance alone?
	Does gender play a role in whether or not a character will survive in a slasher film? Explain
	your reasoning.
•	If you wanted to survive in a slasher film, would you want to play a female character or a male character?
Su	mmary
On	your own
•	Does shuffling the gender variable instead of the survival variable change your answer to the question?
•	Does gender play a role in whether or not a character will survive in a slasher film? — Why or why not?