Name:	Date:
	Iorror Movie Shuffle onse Sheet
Directions: Record your responses to the lab ques	tions in the spaces provided.
Playing with permutations	
(1) To begin, write and run code using the dat	a function to load the slasher data file.
Initial thoughts	
(2) How many variables and observations are of the variables?	contained in the data and what are the possible values
	down a few sentences as to how you came to your and percentages of survivors in each group before
/4) C	
	entage of females who survived and the percentage of nough to conclude that women tend to survive more
Tally whoa !	

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

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Examining differences	
Do the shuffle!	
(6) Run the following and write down the resulting table on a piece of tally(~survival gender, data = slasher)	f paper.
(7) Now run the following to randomly reassign each survival status the resulting table to the one you wrote down.	s to each observation. Compare
tally(~shuffle(survival) gender, data = slasher)	
Let's compare (8) How many people, in total, survived the slasher film before shuffli after shuffling?	ing? How many people survived
(9) How has shuffling our data changed the percentage of women wh	no survived compared to men
who survived?	

(10) Is the difference in percentages from your shuffled data larger or smaller than the difference from the original data? Interpret what this means.

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	Explain why shuffling our data one time is not enough to decide if the difference seen in our all data occurs by chance or not.
Detectin	g differences
(12)	In how many simulations did a higher percentage of males survive than females?
(13)	What is the largest difference in percentages of survival between males and females?
(14)	What patterns are emerging from these simulations?
Now wh	at?
	Fill in the blanks to add a new column that contains the difference between Survives.Female Survives.Male to our shuffled_outcomes data.
shuf	fled_outcomes <- mutate(shuffled_outcomes, diff =
Time to	decide
	Write and run code creating a histogram of the differences in our shuffled_outcomes data ed on your plot, answer the following:
(17)	What was the typical difference in percentages between men and women survivors?
(18)	Does the actual difference occur very often by chance alone?

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LAB 2	E: The Horror Movie Shuffle Response Sheet
(19) Does gender play a role in whet reasoning.	her or not a character will survive in a slasher film? Explain your
(20) If you wanted to survive in a slas character?	sher film, would you want to play a female character or a male
Summary	
On your own	
(21) Does shuffling the gender varial question?	ble instead of the survival variable change your answer to the
(22) Does survival play a role in a cha	racter's gender? Why or why not?