Lesson 4 Activity: Discrete Probability Distributions Name:_____

Creating a Discrete Probability Distribution for a Simple Spinner Game

Directions: You have been given a spinner disc that is subdivided into three equal sections; red, blue, and yellow. In the space below, calculate the probability distribution of all possible outcomes for two spins of the disc. Use data to complete the table as well as the graph.

Spinner Disc

Part One: Fill in the table below for all possible results for two consecutive spins.



Outcome (ex. RR)	Fraction (ex. 1/4)

Part Two: For part two, assume that order is insignificant (ex. RY and YR are to be counted the same). Compile all data from the table and complete the bar graph to represent the % chance of each outcome. This will represent your probability distribution for this chance experiment.

Part Three: Is this what you expected? Why or why not?

%

Outcomes