

# Introduction to Worksheet

## **Overview**

The worksheet at I made up to go along with the mathematics presented does not go directly with Markov matrices or game theory but it deals with probability. In both of the math topics discussed we talked about probability. In Markov matrices we dealt with the probability what population would move to urban areas and vice versa. In game theory we dealt with the probability of when picking a 1 if player 1 would win big or lose big. In this worksheet I have presented several situations such having a deck of cards or a jar of balls. Once I have set up a situation I ask what the probability of a certain occurrence happening is.

## **Mathematics Required**

I am not requiring that anyone know the formula used with Markov matrices or the formula used to find the probability in "The Big Match" because that is just memorization and that it not what I am concerned with. The formula for find probability is given on the worksheet. All the student needs to be able to do is understand what I mean by the variables. I explain what the variable mean but the student must do a little thinking on their own to make a full understanding.

## **Goals for the Worksheet**

After working this worksheet I hope that everyone understands probability. Along with understanding probability I hope that they will realize that probability is only the likelihood that an event will occur.