

GO TO <http://utstat.toronto.edu/david/MH.html#1>

Read carefully how the game is played. The game is similar to a famous TV game that was very popular. It was called Let's Make a Deal.

Play the game ten times and keep score here. Then let your partner play the game and keep score on their paper.

Tries

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____
- 8) _____
- 9) _____
- 10) _____

My total score is: _____

LET YOUR PARTNER PLAY NOW. NEXT, TRY PLAYING AGAIN BUT THIS TIME, ONCE YOU PICK A DOOR, DON'T SWITCH DOORS. STAY WITH YOUR FIRST CHOICE. RECORD YOUR RESULTS HERE:

Tries:

- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____
- 6) _____
- 7) _____
- 8) _____
- 9) _____
- 10) _____

LET YOUR PARTNER TRY DOING THE SAME THING. COMPARE RESULTS WITH YOUR PARTNER. HELP EACH OTHER KEEP TRACK!

Analysis

1) The first time you played the game, how many times did you win out of ten?

_____.

a) Write your answer as a probability _____(fraction).

b) Write your answer as a percent: _____

2) Once you played again (by always staying with the same original door), how many times did you win out of ten tries? _____

a) Write your answer as a probability (fraction)._____

b) Write your answer as a percent: _____

Explain what YOU THINK is happening: (use complete sentences)

For an explanation to the solution:

GO TO <http://www.comedia.com/hot/monty-answer.html>

What is the probability that you win on the first try? _____

If you do not win on the first try, your chances of winning by switching are

_____.

Read the explanation. We will discuss it further in class. Try playing again if you wish. This is a fun problem to let your family members try at home if you have access to a computer at home that is connected to the internet.

