

Now there are N doors. You pick one. Monte then opens n others, leaving closed your door along with $N-n-1$ others.

You are offered the chance to switch to one other door. Should you switch or stay?



Let's divide each team into two sub-teams, one to work the problem analytically, the other by simulation. You're allowed to exchange ideas and data between the two sub-teams.

Simulation teams: Get answers for specific cases

$N=7$ doors: open $n=3$, or 4, or 5; and $N=8$ doors: open $n=3$, 4, or 5.

Analytic teams: As a function of N and n , what is the ratio of your probability of winning, switch vs. stay? When is this greater than 1?