

COT 3100 Fall 2022 - Homework #9 Grading Criteria

- 1) 5 pts – 2 pts sample space, 2 pts # of successes, 1 pt for dividing
- 2) 8 pts – 5 pts for showing that probability of winning with $k = 13$ (or whatever they answered) is greater than $1/3$. 3 pts for showing that the probability of winning with $k = 14$ (or 1 plus whatever they chose) is less than $1/3$. Other partial credit, up to 4 pts, is allowed based on grader discretion. It's unnecessary to use my method, guess and check is fine.
- 3) 6 pts – 2 pts for $E(X)$, 4 pts for $\text{Var}(X)$, can do this in 2 way...other way is directly plugging into Var definition.
- 4) 5 pts – 2 pts combo, 1 pt $.75^{10}$, 1 pt $.25^2$, 1 pt multiply
- 5) 10 pts – 1 pt prob get 11, 1 pt prob get 12, 6 pts – rest of the terms for 2 turn game, 2 pts simplifying to final fraction. (Just take off 1 pt if they never put the fraction but put in a decimal from the calculator.)
- 6) 6 pts – 2 pts for $E(X)$, 4 pts for $\text{Var}(X)$, can do this in 2 way...other way is directly plugging into Var definition.
- 7) 5 pts – 3 pts $\text{prob}(E \text{ and } F)$, 2 pts for final answer
- 8) 5 pts - Grade like the last bio, as long as it's reasonable and has the details I asked for, give full credit.