

CE 311S: PROBABILITY AND STATISTICS

Discussion session

M 1:00 – 2:00 PM

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Administrative Stuff

- Canvas Quiz 2 due Friday 11:59 PM
- Homework 2 due next Friday 11:59 PM
- Exam 1 is on March 8th, and will definitely cover everything till discrete distributions, so make sure you are comfortable with what's been covered already



Week 4: Question

We have a hand of four cards: {A, 2, 3, 4}. You pick two of these cards at random; what is the probability that you get the A or 2?

Your answer should be a number between 0 and 1, written up to two decimal places (An error of +- 0.01 shall be tolerated)



Week 4: Question

Please turn in your answer with your wager and name. Current standings: <u>Link</u>



Week 4: Answer

- The probability is 5/6 or 0.83
- You need to see either A OR 2, so the possibilities are {(A,2), (A,3), (A,4), (2,3), (2,4)} from a sample space of 6 outcomes.



Any questions so far?

 About this specific problem, course material covered so far, etc.



Homework 1 discussion

Solutions will be posted by Dr. Boyles soon



Win a game

 Anna and Beth throw a die alternatively till one of them gets a '6' and wins the game. What is the probability that Anna wins, if Anna starts first?

Ans: 6/11



Solve the following

Group 1

Let A= No. of ways Ann, Tom, Leslie, Jerry, and Ron can sit on chairs marked A, B and C in a classroom such that Ann and Tom never sit together Find P(A)

n(A)= 48 P(A)= 48/60= 4/5

Group 3

Let A= No. of ways a 5 digit number can be framed using numbers 2, 4, 5 and 7 such that the number is greater than 52,000. Find P(A)

n(A)= 448; P(A)= 448/1024= 7/16

Group 2

A= No. of ways a team of 4 can be chosen from a group of 4 senior and 4 junior players such that the team consists of at least one junior and senior. Find P(A)

n(A)= 68; P(A)= 68/70= 34/35

Group 4

Your friends visit Austin for 7 days. Each evening you can take them to one of A, B, C, or D restaurant for dinner. No. of ways of picking restaurants such that B is visited atleast twice.

n(A)= 9094(Ordered); P(A)= 9094/4⁷= 4547/8192



Thank you

Any Questions?