

CIT 5920 — Lecture 11: Conditional Probability

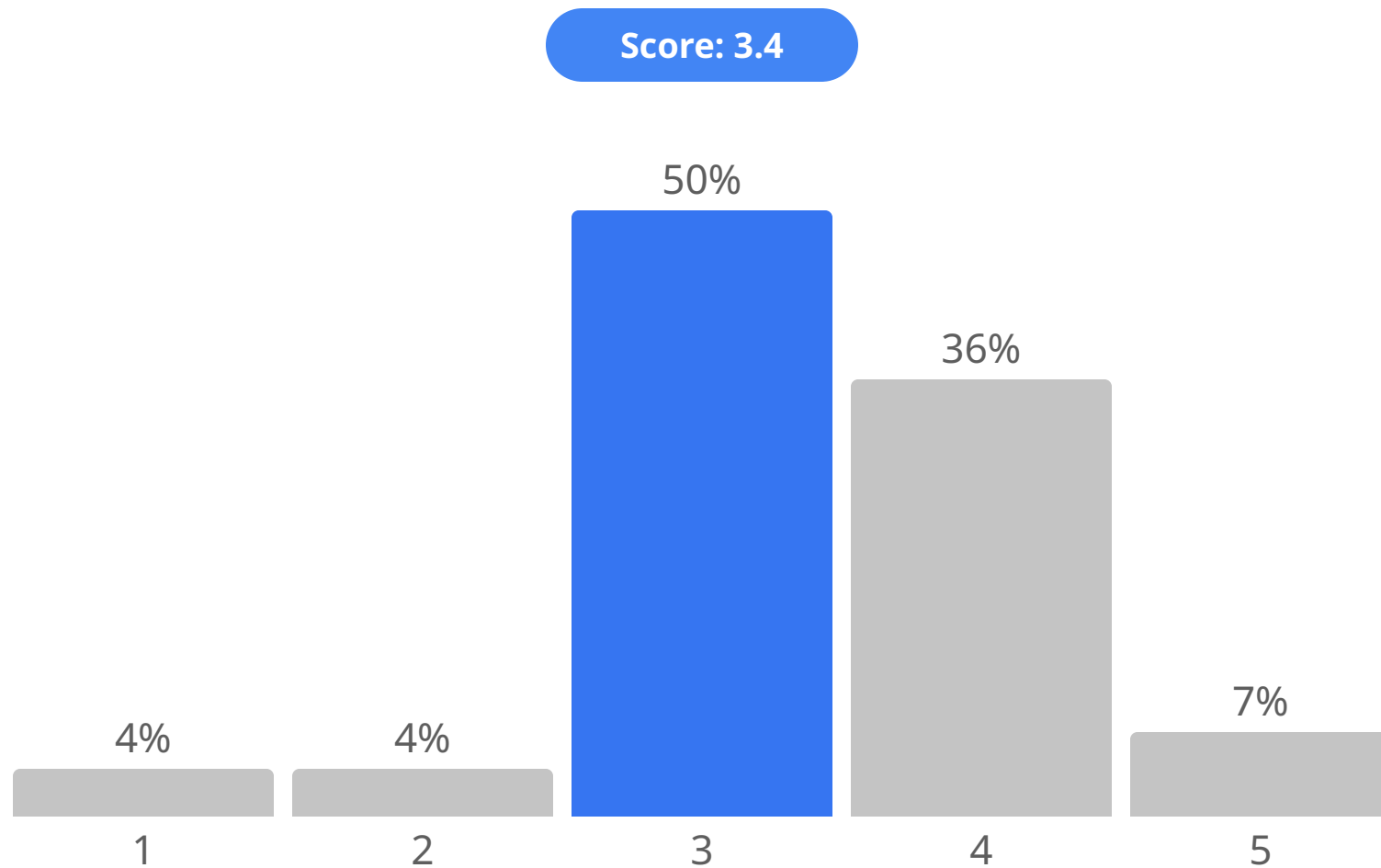
10 - 10 Oct 2024

Poll results

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Describe your confidence level on HW3?



Use one word to describe HW3.



Survey on HW2 (3/4)

0 2 3

Please describe one way we succeeded in making the HW3 experience positive for you?
(1/2)

- Diversity of questions
- Trying to connect to different concepts
- I got points off for not providing explanations for last question b
- I like the grouping of different types of questions on PrairieLearn, makes it so much clear of the types of questions we need to understand.
- Being more flexible on grading?
- For some questions, our scores should not
- be deducted for no steps because the answers are very obvious and do not need steps to explain.
- recitation TAs were very helpful in explaining some concepts.
- Difficult but not too difficult
- Give clearer feedback.
- More practice to understand the logic.
- TA session was helpful
- NA
- The problems were fair and not too time consuming

Survey on HW2 (3/4)

0 2 3

Please describe one way we succeeded in making the HW3 experience positive for you?
(2/2)

- harder questions
- everything else is fair. I LOOOOVED the numerous examples and practice problems
- The amount of question is pretty fair
- Very clear feedback
- hard
- We went through more examples during lecture
- Extra credit
- The corrections described exactly where I went wrong, so I could improve it.
- Reviewing concepts and one of the problems in recitation
- recitation

Survey on HW2 (4/4)

0 2 2

Please describe how we could have made the HW3 experience better for you.
(1/3)

- Not possible
 - Maybe add (please provide explanation)
 - maybe some example written questions and example answers
 - More flexibility in evaluation
 - For some questions, our scores should not be deducted for no steps because the answers are very obvious and do not need steps to explain.
 - if we had covered more of the concepts in lecture,
- i would have felt more supported when doing HW3. maybe if we went through more challenging examples in lecture, because i find the recitation content is usually way harder.
- Perhaps breaking a difficult problem into smaller parts , each part being a guide for one step of solving the problem.
 - When deducting points, write down the correct answer.
 - Variants in the online

Survey on HW2 (4/4)

0 2 2

Please describe how we could have made the HW3 experience better for you.
(2/3)

- part is very helpful
- If there could be an clearer overview of the types of problem and how to tackle each from a summary / big-picture point of view
- 1. Match the progress of the course with the homework 2. Match the difficulty of the examples in class with the difficulty of the hw.
- If we could include more explanations that would be great!
- make the wording clearer
- Please make in bold that we needed to justify our answers so we won't get points taken off for problems we already solved.
- Maybe go through some harder examples in class
- Point out knowledge examined
- All the questions are very confused to understand
- More exploration on problem types, since recognizing which strategy

Survey on HW2 (4/4)

0 2 2

Please describe how we could have made the HW3 experience better for you.
(3/3)

we should employ is kind of tricky
at times

- Extra credit
- Give examples in class of exercises that are more similar to the ones in the Homework before we have to submit it.
- more exercise
- Providing more tools for identifying rules/methods we need to solve a given problem

Would you like to do a quick probability refresher quiz? Or move to new topic?

0 2 5

New topic



Quiz on elementary material



What is the sample space of an experiment?

The set of all possible outcomes of the experiment. ✓

 79 %

The likelihood of an event occurring.

 0 %

The set of all events.

 9 %

A subset of of some outcomes.

 12 %

Quiz: Probability Refresher (2/4)

0 3 2

In the dice experiment, how many possible outcomes are there when a red and a blue die are thrown simultaneously?

6



12



36 ✓



72



What is an event E , in the context of probabilities?

The set of all possible outcomes of the experiment.

 3 %

The likelihood of an event occurring.

 24 %

The set of all events.

 6 %

A subset of some outcomes. ✓

 68 %

What is the probability of an event E?

The sum of probabilities of all outcomes in E. ✓

 24 %

The number of outcomes in E divided by the number of outcomes in the sample space.

 67 %

The likelihood of E occurring.

 6 %

The number of outcomes that E contains.

 3 %