NPFL 054

Entry test in probability and statistics

October 2019

Students and questions

- 54 students took the test (written form, 2 pages, 20 minutes)
 - 33% stated they have not passed any university course on probability/statistics
 - 50 students of Faculty of Mathematics and Physics (MFF)
 3 students of Faculty of Science (PřF), 1 student of Faculty of Arts (FF UK)
- 13 test questions on
 - simple probability calculating (1)
 - conditional probability (4)
 - o joint probability (4)
 - statistical independence (1)
 - binomial distribution (1)
 - sample mean (1)
 - sample median (1)

Evaluation

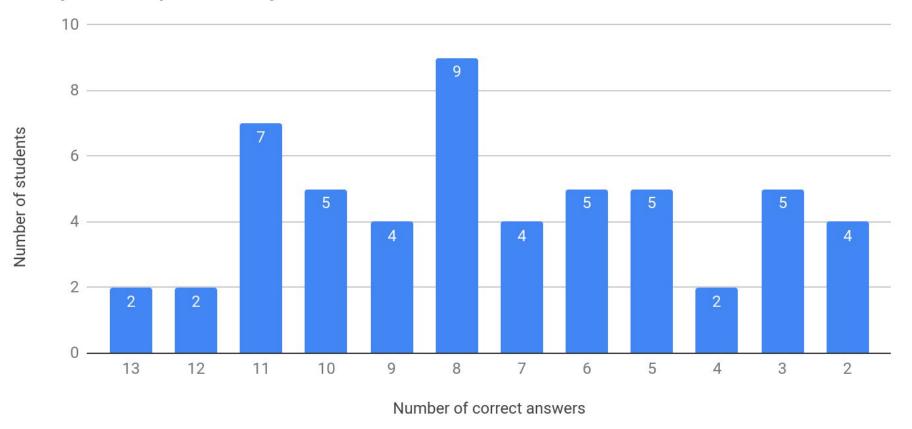
- Maximum score = 13 points
 - o 13 questions equally scored, each by 1 point

- Painful missing knowledge
 - binomial distribution only 35% of answers correct
 - o conditional probability only 50% of answers correct

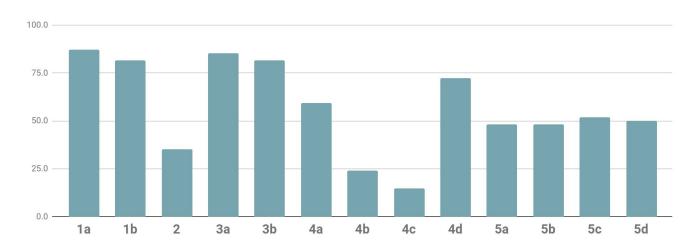
- Your knowledge of probability and statistics should be practical
 - you should be able to apply your theoretical knowledge to practical exercises

Entry test — total points sorted perfect ≥ 12 good ≥ 10 moderate ≥ 7 weak ≥ 5 poor

Entry test in probability and statistics - distribution of correct answers



Percentage of correct answers



Questions

- 1. Calculating probability
- 2. Binomial distribution
- 3. Sample mean and median
- 4. Joint probability
- 5. Conditional probability and statistical independence

Percentage of correct answers

Depending on the previous course in probability/statistics

