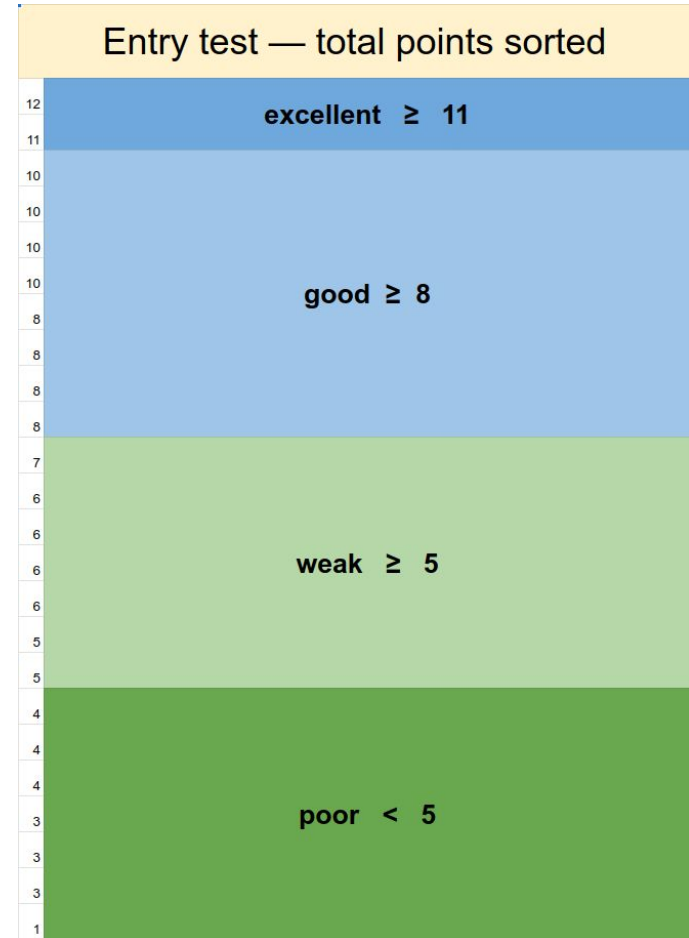# NPFL 054
Entry test in probability and statistics

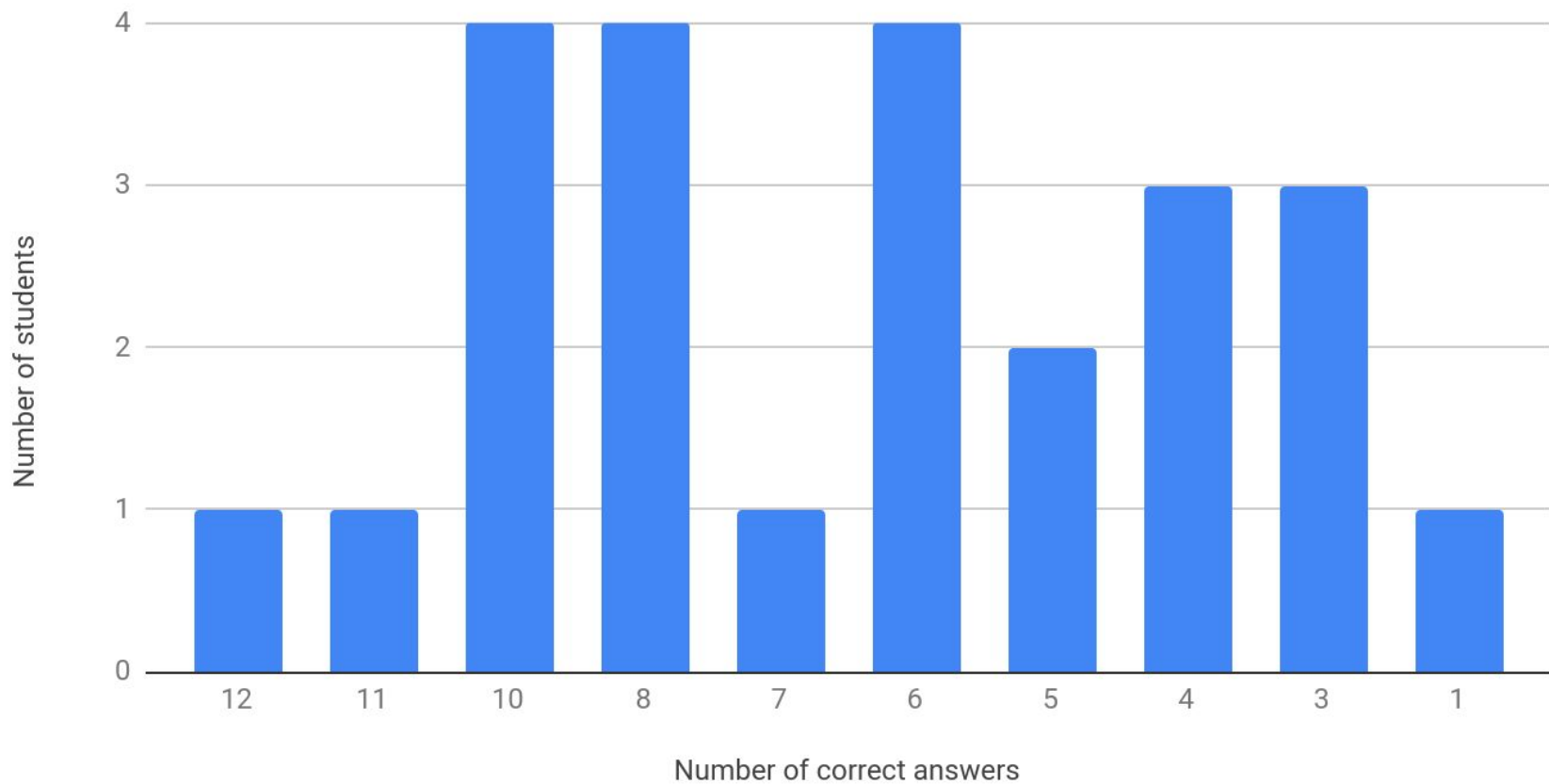March 2021

Students and questions

- 24 students took the test (online form, 12 questions, 25 minutes)
  - 63% stated they have passed a course in probability/statistics at MFF UK
  - 25% stated they have not passed any university course in probability/statistics
  - 21% stated they used some auxiliary material or information source during the test

- 12 test questions on
  - simple probability calculating (1)
  - conditional probability (4)
  - joint probability (4)
  - statistical independence (1)
  - binomial distribution (1)
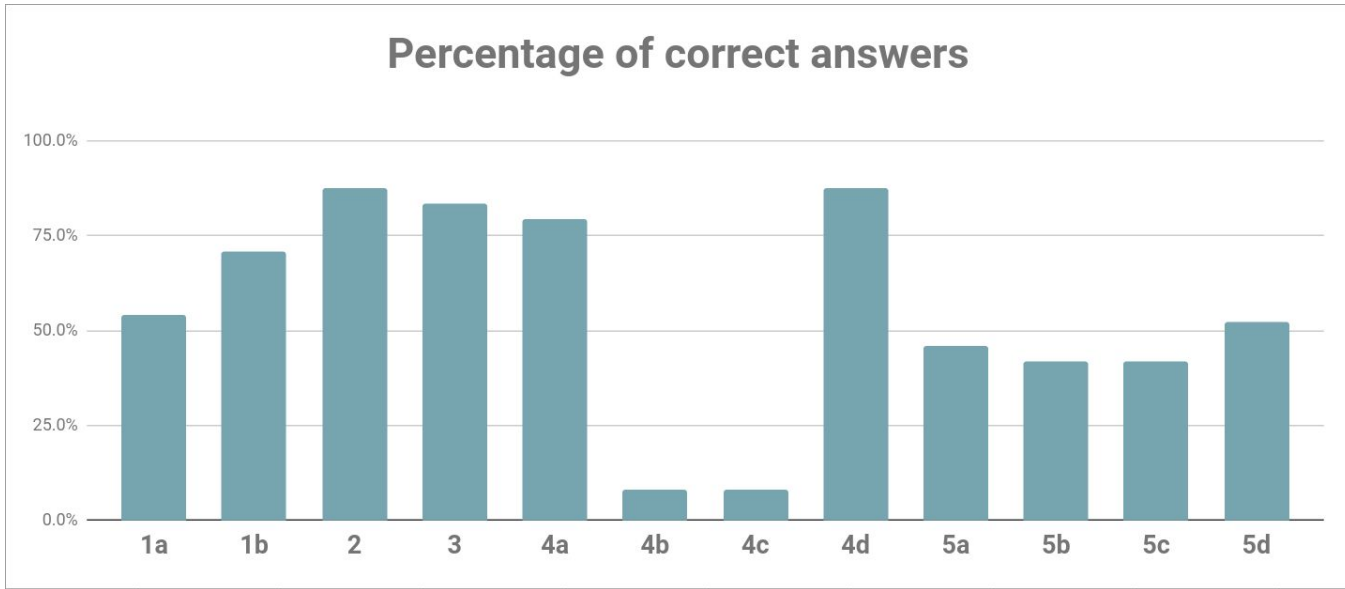 - sample mean and sample median (1)

Evaluation

- **Maximum score = 12 points**
  - 12 questions equally scored, each by 1 point

- **Painful gaps in knowledge**
  - conditional probability and statistical independence – less than 50% of answers correct
  - also in simple probability calculating (rolling a die) your answers were often wrong

- **Important! – your knowledge of probability and statistics should be practical**
  - you should be able to apply your theoretical knowledge in practical exercises

Entry test — total points sorted

12	excellent ≥ 11
11	
10	
10	
10	good ≥ 8
8	
8	
8	
8	
7	
6	
6	weak ≥ 5
6	
5	
5	
4	
4	
3	poor < 5
3	
3	
1	

Entry test in probability and statistics – distribution 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 at MFF

■ Course at MFF = YES   ■ Course at MFF = NO