

EXAM 10 (duration: 25 minutes)

DatZ1143: Discrete mathematics for computing
Instructor: Abuzer Yakaryılmaz

Name and surname:

Student number:

Date:

Questions

(There are 5 questions, 13 points in total.)

1. What is the expected number of heads that come up when a fair coin is flipped once?
[1 point]
2. What is the expected number of heads that come up when a fair coin is flipped four times? [2 point]
3. Let X be the number that comes up when a fair dice is rolled. What is the expected value of X ? [2 point]

4. What is the expected value of the sum of the numbers that appear when three fair dices are rolled? [3 points]

5. Let Y be the square of the number that comes up when a fair dice is rolled. What is the expected value of Y ? [5 point]