

(Due Tuesday 02/05/2019 right before the class)

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(Your homework shall be stapled if it contains multiple pages.)

SPRING/2019/MA526: HOMEWORK 2

Instructor: Guangqu Zheng¹; Grader: Chessa Mccalla²

Total points: 20

Q1 (4 points) How many different letter arrangements can be made from the letters in the word
STATISTICAL ?

Q2 (4 points) There are two bags called A and B . In bag A , there are 4 objects and in bag B , there are 3 objects. These 7 objects are all different. Now you are asked to pick in total 4 objects from these two bags subject to one condition that you need to pick at least one object from bag B . So how many different ways?

Q3 (4 points) A pair of fair dice is tossed.

Find the probability of getting a total of 8.

Also find the probability of getting at most a total of 5.

Q4 (8 points) Do exercise 2.66 in the textbook.

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