

Subject n°21

STATISTICS AND PROBABILITIES

Please do not write on the subject paper and don't forget to give back the examination paper at the end of the test.

Exercise 1

The table below shows the Body Mass Indexes for Miss America from two different periods.

BMI (1920 – 1930)	20,4	21,9	22,1	22,3	20,3	18,8	18,9	19,4	18,4	19,1
BMI (from recent winners)	19,5	20,3	19,6	20,2	17,8	17,9	19,1	18,8	17,6	16,8

Find the mean, standard deviation and median for each distribution, then compare the results.

Exercise 2

Five faces of a fair die are painted black, and one face is painted white. The die is rolled six times. Which of the following results is more likely?

A : "you get Black on five of the rolls"

B : "you get Black on all six rolls"

Vocabulary

Body Mass Index : Indice de Masse Corporelle

A die (dice): dé(s)