1 - introduction

statistical methods → allow us to derive the characteristic of the population, based on sample.

↳ we hope characteristic of the sample to reflect the population

statictic methods rest on probability theory.

← branch of math deals with the phenomena which contain chance effects

* in ideal world (population) we have random variables defined on sample spaces.
* in real world (sample) we have statistics

STATISTICS → any aggregte (total) quantity computed from the sample (e.g. average