

MIDTERM EXAM - STATISTICAL TOOLS FOR INFRASTRUCTURE DESIGN - OCTOBER 31, 2025
(ELEMENTARY STATISTICS, 1.5 CFU, M. SERVA)

Name and Surname _____

Exercise: A sample consists of three members of the Italian Parliament. Their political career length (in years) and annual income (in tens of thousands of euros) are:

12	32	8	12	16	52
----	----	---	----	----	----

Calculate the correlation coefficient.

Discuss the following two topics. The normal or Gaussian distribution $N(\mu, \sigma)$: explicit expression of the probability density. The central limit theorem (only the statement).