PARTIAL EXAM - STATISTICAL TOOLS FOR INFRASTRUCURE DESIGN - FEBRUARY 02, 2026
(ELEMENTARY STATISTICS, 1.5 CFU, M. SERVA)

Surname _____

Given Name _____

Exercise: In a town of 100,000 inhabitants the income (in thousands of euros) is distributed as follows: 40,000 citizens earn 10, 30,000 citizens earn 20, 20,000 citizens earn 30 and 10,000 citizens earn 40.

1. Construct the table of frequencies, determine the mode and the median of the distribution.
2. Calculate the sample mean, the variance, and the standard deviation.

Discuss the following topic: The Central Limit Theorem.