

## Sections Européennes - Session 2025

### Sujet n°1

*Please do not write on this document and do not forget to hand it back to the jury at the end of the exam.*

### STATISTICS

Two restaurants in the city center, "Gourmet Delight" and "Tasty Bites", have been competing for customers for the past year. The city's food critic wants to compare these restaurants based on customer ratings (marked from 1, the worst, to 10, the best) and other relevant data.

Gourmet Delight:

- Customer ratings (out of 10) for 20 customers:  
7, 8, 9, 6, 8, 7, 9, 8, 7, 8, 9, 7, 8, 6, 8, 9, 7, 8, 9, 8
- Average meal price: €30
- Number of dishes on the menu : 25
- Seating capacity: 60

Tasty Bites:

- Customer ratings (out of 10) for 20 customers:  
6, 7, 8, 5, 7, 6, 8, 7, 6, 7, 8, 6, 7, 5, 7, 8, 6, 7, 8, 7
- Average meal price: €30
- Number of dishes on the menu : 30
- Seating capacity: 70

a) Using your knowledge about Statistics, compare both data.

b) You are tasked with advising these restaurants on how to stand out from their competitor. What strategies would you suggest ? How do your statistical findings support these recommendations ?