Probability and Statistics

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Lab Sheet 10

Exercise

A vending machine owner claims that customers choose the four snack types (A, B, C, D) with equal probability. To test this claim, a researcher records the number of purchases for each snack type during one week and results are given below.

Snack_Type	Count
A	120
В	95
С	85
D	100

- State the null and alternative hypotheses for the test.
- Perform a suitable chi-squared test to test the null hypothesis.
- Give your conclusions based on the results.



