Answers: Hypothesis Tests

Ellie Trace

Summary

Answers to questions relating to the guide on Hypothesis tests.

*These are the answers to* [*Questions: Hypothesis tests*](../questions/qs-hypothesistests.qmd)*.*

**Please attempt the questions before reading these answers!**

# Defining hypotheses



# Significance levels

# Test selection

1. Paired -test

# Critical values and conclusions

1. I reject as the test statistic of is greater than the critical value of . Therefore there is significant evidence to suggest the average daily sales of Boole Bars differ from 150.
2. I reject as the test statistic of is greater than the critical value of . Therefore there is significant evidence to suggest the proportion of customers who buy Lagrangian Lollipops exceeds .
3. I do not reject as the test statistic of is between the critical values of and . Therefore there is no significant evidence to suggest there is a difference in sweetness scores between the two recipes.

## Version history and licensing

v1.0: initial version created 12/24 by ect6 (as part of a University of St Andrews VIP project)

[This work is licensed under CC BY-NC-SA 4.0.](https://creativecommons.org/licenses/by-nc-sa/4.0/?ref=chooser-v1)