Theory of Science - Deliverables for Part II

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Exercise 1

\mathbf{A}

For each of the four hypotheses,

Determine whether it is a one sample performance hypothesis, or a two-sample comparative hypothesis

Perform a preliminary investigation of the plausibility of the hypothesis using descriptive analysis tools (boxplots, histograms, biplots, . .)

H1

The probability that a student gets question 1 right is 50%

1. One-sample performance analysis.

H2

The average total that students obtain is less than 50 points.

1. One-sample performance analysis.

H3

BLA students get better exam results than CRU students

1. Two-sample comparative analysis.

H4

Question 5 is more difficult than question 8

1. Two-sample comparative analysis.

Exercise 2

Exercise 3