

## **Year 10 Maths Statistics Assessment 1**

**Investigate a given bivariate data set using PPDAC the statistical enquiry cycle.**

### **Task**

As you carry out this task, you will use the statistical enquiry cycle (Problem, Plan, Data, Analysis and Conclusion).

### ***Problem***

Pose an investigative question for the data given by the teacher. Your investigative question can either be a comparison question or a relationship question. (A suitable investigative question is one that reflects the population, has a clear variable to investigate, compares the values of a continuous variable across different categories, and can be answered with the data.)

For each question state the variable you are investigating and the groups you are comparing.

### ***Plan***

What will you be comparing and contrasting

### ***Data***

Explain how the data was managed/Data source

### ***Analysis***

Draw at least two appropriate graphs that show different features of the data in relation to your investigative question.

Give appropriate summary statistics.

Describe features of the distributions comparatively, for example, shape, middle 50%, shift, overlap, spread, unusual or interesting features.

### ***Conclusion***

Write a conclusion summarize your findings. The conclusion needs to include an informal inference in response to your investigative question and be supported with relevant evidence.

# The Statistical Enquiry Cycle (PPDAC)



Based on the PPDAC poster from Census at School, New Zealand  
[www.censusatschool.org.nz](http://www.censusatschool.org.nz)

