Graphical user interface

Description automatically generated with medium confidence

Year 9 Mathematics 5.2

**Assessment Task 2 – 2023**

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| **TOPIC:** Single Variable Analysis | **MARKS: 75** |
| **SUBMISSION REQUIREMENTS:**  Term 2 Week 5 – **In class**- Due Friday 26th May 2023 | **Name:** |
| **OUTCOMES TO BE ASSESSED:**  MA 5.1-12 SP: **Uses** statistical displays to **compare** sets of data, and **evaluates** statistical claims made in the media  MA 5.2-1 WM: **Selects** appropriate notations and conventions to communicate mathematical ideas and solutions  MA 5.2-2 WM: **Interprets** mathematical or real-life situations, systematically applying appropriate strategies to solve problems  MA 5.2-15 SP: **Uses** quartiles and box plots to **compare** sets of data and **evaluate** sources of data. | |
| **Directional Verbs:**  **Uses:** Utilise, employ in a particular situation  **Interpret:** Draw meaning from  **Select:** Choose most relevant option  **Compare:** Show how things are similar of different  **Evaluate:** Make a judgement based on criteria; determine the value of | |
| **TASK DESCRIPTION: You will complete a statistical inquiry in class over three weeks using data given. The four parts of this inquiry are listed below**  **Part 1 - Collecting the data (13 marks)**  You will:   * Design survey questions * Determine how bias is introduced into data * Describe how to collect the data * Record your data in a frequency distribution table   **Part 2 - Analysing the data (25 marks)**  You will:   * Calculate the mean and mode of the data from a frequency distribution table * Find the median from a frequency distribution table, histogram, and dot plot * Find the quartiles from a frequency distribution table, histogram, and dot plot * Write a five number summary * Find the range and interquartile range   **Part 3 - Displaying the data (24 marks)**  You will:   * Draw a box and whisker plot * Compare parallel box and whisker plots * Describe the shape of your distributions * Determine if the outliers are mathematically significant * Look at the effects of outliers on data analysis   **Part 4 – Writing a report (13 marks)**  You will:   * Create an article that sums up your findings * Draw three conclusions about indigenous health education * Include a paragraph to explain and support your conclusions * Submit a final copy of your article on a separate A4 paper or cardboard. | |