|  |  |  |
| --- | --- | --- |
| **Statistics** | Key points | Marks |
| **Clarify the problem** | * Provides simple introduction * Provides detailed introduction (more background info) * States question to be answered * Mentions what statistics they will use | /4 |
| **Design and implement a plan to collect or obtain appropriate data** | * Uses data provided * Sources extra appropriate data * References extra data | /3 |
| **Analyse information/data by using graphical or numerical techniques** | For each data set  Numerical   * Calculates mean, median and mode with outliers * Calculates mean median and mode without outliers * Calculate range (both) * Calculate Standard deviation * Calculate IQR (both) * 5 number summary (both)   Graphical   * Constructs separate graphs * Construct comparative graphs (back-to-back S&L etc) * Graphs correct including labelling (All) * Graphs have title (all) | /10 |
| **Interpret results and relate to original question** | * Answers question * Relates answer to measures of average (mean, median, mode) * Relates answer to measures of spread (Standard deviation, range, IQR) * Relates answer to graphs * Discusses outliers * Discusses difficulties with task * Suggest improvements to make report more accurate (better data etc) | /7 |
| **Communicate findings** | * Includes conclusion * Report is neat (Ruler used for graphs etc) * Report is set out logically | /3 |
|  |  | Total:  /27 |