Year 12 Essential 2021 Statistical Investigation 1 (Bivariate Data) marking rubric

Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ /35 marks

**Clarify Problem / Design and Implement a plan**

|  |  |  |
| --- | --- | --- |
| Restate question | (2 marks) |  |
| Identify drawing a scatterplot and analyzing information | (2 marks) |  |
| State correct variables | (2 mark) |  |

**Select and Apply appropriate graphical techniques**

|  |  |  |
| --- | --- | --- |
| Draw scatterplots | (2 marks) |  |
| Dependent/Independent variable on appropriate axis for both scatterplots | (2 marks) |  |
| Scale appropriate to allow for predictions to be made | (1 mark) |  |
| Labelled axis | (1 mark) |  |
| Title on scatterplots | (1 mark) |  |
| 1 trend line drawn | (1 mark) |  |
| Trend line drawn accurately | (1 mark) |  |
| Ruler used | (1 mark) |  |
| Identify outlier | (1 mark) |  |
| Remove outlier/not removed with a reason | (2 marks) |  |

**Interpret the results and analyse**

|  |  |  |
| --- | --- | --- |
| Association strength, direction, form, none | (4 marks) |  |
| Relate association to variables and why | (4 marks) |  |
| Mention Causation / any other factors | (2 marks) |  |
| Outlier discussed | (2 mark) |  |
| Compare/contrast made between the effect on sleep from caffeine vs social media | (2 marks) |  |

**Communicate findings**

|  |  |  |
| --- | --- | --- |
| Answers the initial question | (1 mark) |  |
| Further investigation commented | (1 mark) |  |

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