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| Year  10 | | Bivariate Data Practice Test | | Non Calculator |
| Short Answer Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this Practice Test paper. | | | |
|  | **Questions 1 to 4 refer to the table below.**   |  |  |  | | --- | --- | --- | | Weekly Incomes for 15 – 19 year olds. | | | | Income Range | Males | Females | | No income | 180 | 220 | | $1-$149 | 175 | 184 | | $150-$249 | 80 | 63 | | $250-$399 | 87 | 60 | | $400-$599 | 48 | 12 | | $600-$799 | 16 | 6 | | $800-$999 | 6 | 4 | | $1,000 or more | 8 | 1 | | **Total** | **600** | **550** |   The table shows the incomes for 15‑19 year olds in a local government area. | | | |
| 1. | What percentage of males had an income of $600 or more?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 2. | What percentage of females had an income of $600 or more?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 3. | Which gender had the greater percentage of people with no income, and by how much was it greater?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 4. | Describe the difference in the distribution of income for males compared to females.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
|  | **Questions 5 – 8 refer to the graph below.**  The graph shows the population of two species of marsupial in a bushland area over a period of 200 years.    1800 1850 1900 1950 2000  Years | | | |
| 5. | How many less Potoroos were there in 1900, compared to 1800?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 6. | Land clearing began in 1825, what effect did it have on the population of the two species?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 7. | A National Park was established on part of the bushland. Which year do you think it was? Explain your answer.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 8. | One species was more volatile in its responses to changes to its environment. Which species do you think this was? Explain your answer.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
|  | **Questions 9 – 12 refer to the graph below.**  The graph compares reaction times on a computer test with the age of the participants. | | | |
| 9. | How many people had a reaction time of less than 2 seconds?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 10. | How many people were aged over 60 years?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 11. | What percentage of people who were aged between 20 and 50 had a reaction time less than 2 seconds?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 12. | Draw a line of best fit on the graph. | | | |

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| Year  10 | | Bivariate Data Practice Test | | Calculator |
| Multiple Choice Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Mark all your answers on the accompanying multiple choice answer sheet, not on this Practice Test paper. You may do any working out on this Practice Test paper. Calculators are allowed for this section. | | | |
| Temperature ( oC) | **Questions 1 -4 refer to the graph below.** | | | |
| 1. | What was the maximum temperature during the week?  **A.** 12o **B.** 21o **C.** 24o **D.** 26o | | | |
| 2. | What was the temperature range for the week?  **A.** 12o **B.** 21o **C.** 24o **D.** 16o | | | |
| 3. | Which days recorded the same temperature?  A. Thursday and Sunday B. Monday and Friday  C. Wednesday and Friday D. Tuesday and Saturday | | | |
| 4. | Temperature is an example of:  A. Continuous quantitative data. B. Discrete quantitative data  C. Continuous categorical data D. Discrete categorical data | | | |
| 5. | An election is called and a newspaper rings 1000 randomly selected people in 20 electorates in different parts of the state to ask them about their voting intentions.  This is an example of:  A. A biased census. B. A biased sample.  C. An unbiased sample. D. An unbiased census. | | | |
|  | **Question 6 – 8 refer to the graph below.**  The scatter graph shows the results of a survey which compares the time spent standing at a concert to the height of the individuals. | | | |
| 6. | How many people were included in the survey?  A. 2 B. 10 C. 13 D. 15 | | | |
| 7. | What percentage of people were 1.8 metres in height or more?  A. 31% B. 15% C. 23% D. 44% | | | |
| 8. | Of those who were standing for longer than 4 minutes, what percentage were over 1.4 metres in height?  A. 20% B. 25% C. 30% D. 40% | | | |
|  | **Questions 9 and 10 refer to the graph below.**  Four students try to draw a line of best fit for the scatter plot.  C.  D.  B.  A. | | | |
| 9. | Which of the lines (A, B, C or D) would be the line of best fit for the scatter plot? | | | |
| 10. | Which of the lines (A, B, C or D) has a positive gradient? | | | |

Bivariate Data Practice Test

Multiple Choice Section

Answer Sheet

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Completely fill the response oval representing the most correct answer.

1. A B C D

2. A B C D

3. A B C D

4. A B C D

5. A B C D

6. A B C D

7. A B C D

8. A B C D

9. A B C D

10. A B C D