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| Year  7 | Mathematics Test  Graphs, Tables and Charts | **Non Calculator**  **Test** |
|  | Name |  |

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| **Answer all questions in the spaces provided on this test paper by**  **Writing the answer in the box provided.**  **or**  **Shading in the bubble for the correct answer from the four choices provided.**  **or**  **Accurately completing a graph using the appropriate instruments.**  **Show any working out on the test paper.** | |
|  | Questions 1 – 4 refer to the column graph below which shows the number of books that the members of the Mystery Book Club own.      Number of Books  Club Member |
| 1. | How many books does Ray own? |
| 2. | Do any two members have the same number of books? |
| 3. | David has more books than Murray. How many more? |
| 4. | How many books do the members of the club own altogether? |
|  | Questions 5 -8 refer to the sector graph showing the amount of money spent on advertising in different media by a large company. |
| 5. | Which media took a quarter of the company’s spending on advertising?  Internet Newspapers Radio TV |
| 6. | Which two media had equal fractions of the total spending on advertising?  and |
| 7. | What fraction of the advertising was spent on TV? |
| 8. | $24 million dollars was spent on advertising by the company.  How much of this was spent on Magazine advertising?  $ million. |
|  | Questions 9 – 12 refer to the line graph which shows the temperature at Milltown over a period of 24 hours.    12 2 4 6 8 10 12 2 4 6 8 10 12  am pm  Time |
| 9. | What is the temperature at 6 pm? |
| 10. | At what times is the temperature 15o?  8 am and 7 pm 9 am and 7 pm 8 am and 9 pm 9 am and 9 pm |
| 11. | The temperature range is the difference between the maximum and minimum temperatures.  What is the temperature range for the day? |
| 12. | How many hours is the temperature above 10o?  7 hours 9 hours 11 hours 13 hours |
|  | Questions 13 to 16 refer to the graph below.      (€) |
| 13. | The value of $A32 is closest to  €14.00 €20.00 €35.00 €50.00 |
| 14. | The value of €15 is closest to  $22 $24 $25 $28 |
| 15. | Harriet wants to buy a watch from France which is advertised as €25.00. How much would this be in Australian dollars?  $ |
| 16. | Mario wants to send $800 home to his mum in Italy. How much will her mum get in Euros?  € |
|  | Questions 17 to 20 refer to the frequency table below. |
| 17. | On the table above, complete the missing tally marks for the score of 4 and the missing frequency for the score of 3. |
| 18. | How many families were included in the survey?  families. |
| 19. | On the grid below, draw a frequency histogram for the data.  Frequency  0 1 2 3 4 5 6  Family Size    Score |
| 20. | On the same axes as the histogram, draw a frequency polygon. |
|  | Question 21 – 25 refer to the dot plot below which was drawn when a sample of people were asked the number of pets they own.  Number of Pets for a Sample of People   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | |  | Ο |  |  |  |  |  |  |  | |  | Ο |  |  |  |  |  |  |  | |  | Ο | Ο |  |  |  |  |  |  | |  | Ο | Ο | Ο |  |  |  |  |  | | Ο | Ο | Ο | Ο | Ο |  | Ο |  |  | | Ο | Ο | Ο | Ο | Ο | Ο | Ο |  | Ο | | Ο | Ο | Ο | Ο | Ο | Ο | Ο | Ο | Ο | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |     Number of Pets |
| 21. | What was the largest number of pets owned by a person in the sample?  7 8 9 10 |
| 22. | How many people had 6 pets?  3 4 5 30 |
| 23. | What was the second most common number of pets?  pets. |
| 24. | How many people were asked about their number of pets?  people |
| 25. | Which is correct?  of the people had no pets.  of the people had 1 pet.  of the people had 2 pets.  of the people had 3 pets. |
| 26. | Bella collects data on the favourite Movie among her classmates. This data is;  Quantitative and Continuous Categorical Quantitative and Discrete |
| 27. | Year 8 conducts surveys on the four subjects, listed below. Which survey is an example of collecting quantitative discrete data;  The number of siblings of 100 children.  The heights of 100 students.  The names of 100 students.  The favourite food of 100 students. |
|  | Questions 27 – 30 refer to the stem and leaf plot below, which was drawn when a sample of people were asked their mass in kilograms.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Stem | Leaf | | | | | | | | 4 | 2 | 4 | 5 | 6 | 8 |  |  | | 5 | 3 | 4 | 7 | 7 | 7 | 7 |  | | 6 | 2 | 3 | 3 | 3 | 7 | 8 | 9 | | 7 | 6 | 8 | 9 | 9 |  |  |  | | 8 | 0 | 0 | 2 | 8 |  |  |  | | 9 | 2 | 4 | 5 |  |  |  |  | |
| 27. | How many people had a mass of 63 kg?  people. |
| 28. | What mass was most common?  kg. |
| 29. | What was the greatest mass recorded?  kg. |
| 30. | What is the difference between the heaviest and lightest masses?  5.0 kg 5.3 kg 50 kg 53 kg |

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|  | ANSWERS |  |

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