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| Year  9 | | Basic Statistics Practice Test | | Non Calculator |
| Short Answer Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this Practice Test paper. | | | |
| 1. | Five friends earn the following marks on a Test: 13, 25, 16, 12 and 19.  Find the mean (average) of their marks.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 2. | Karen scores the following scores in 10 shots at a dartboard.  13, 5, 16, 12, 21, 45, 20, 5, 57 and 19.  Find the median of her scores.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 3. | Harry plays seven games of basketball and scores the following number of points,  13, 15, 6, 12, 20, 14 and 19.  What is the range of his scores?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 4. | Complete the sector graph below of car colours in a carpark.   |  |  |  | | --- | --- | --- | | Colour | Percent | Angle | | Red | 62.5% | 225° | | Blue | 12.5% |  | | White | 25% | 90° | | | | |
| 5. | What is the median of the scores shown in the dot plot.     |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | |  |  |  |  | O |  |  | |  |  | O | O | O | O |  | |  | O | O | O | O | O |  | |  | O | O | O | O | O | O | |  | 5 | 6 | 7 | 8 | 9 | 10 |   Score out of 10  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
|  | ***Questions 6 - 9 refer to the frequency table below.*** | | | |
| 6. | Complete the table. | | | |
| 7. | What is the mode of the scores?  .......................................................................................................................................................... | | | |
| 8. | What is the median of the scores?  .......................................................................................................................................................... | | | |
| 9. | What is the mean of the scores?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |

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| Year  9 | | Basic Statistics 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. | | | |
| 1. | The median of the scores 5, 8, 9, 17, 6, 3 and 2 is :    A 2 B 17 C 6 D 50 | | | |
| 2. | The mean of the scores 15, 12, 14, 11, 17, and 21 is :  A. 18 B. 21 C. 72.5 D. 15 | | | |
| 3. | The mode of the scores 2, 12, 4, 3, 7, 2, 5, 7, 4, and 7 is :  A. 7 B. 2 C. 4 D. 2, 4 and 7. | | | |
|  | ***Questions 4 - 6 refer to the results of a survey of student masses shown in the stem and leaf plot.*** | | | |
| 4. | The mean of the masses is;   1. 35 B. 60 C. 63 D. 65 | | | |
| 5. | Which statement is correct about the masses ;  A. the mode is 65 and the median is 63 B. the mode is 60 and the median is 63  C. the mode is 65 and the median is 60 D. the mode is 63 and the median is 65 | | | |
| 6. | The range of the masses is;   1. 3 B. 5 C. 27 D. 35 | | | |
|  | Questions 7 – 8 refer to the pie chart below, which shows the voting intentions in West Ham. | | | |
| 7. | Which party had the second least number of votes  A. Labour B. Liberal  C. Greens D. Nationals | | | |
| 8. | Which of the following pairs of parties would have more than 50% of the vote between them?  A. Labour and Nationals B. Liberal and Nationals  C. Labour and Greens D. Greens and Nationals | | | |
|  | Questions 9 – 11 refer to the dot plot below, which shows the size of families in a housing subdivision.    Number in Family | | | |
| 9. | The mean family size is;  A. 3.5 B. 4 C. 4.5 D. 5 | | | |
| 10. | Which median family size is;  A. 3.5 B. 4 C. 4.5 D. 5 | | | |
| 11. | The range of the data is;  A. 3.5 B. 4 C. 4.5 D. 5 | | | |

Basic Statistics 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

11. A B C D