|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year  10 | | Data Interpretation and Comparison Practice Test | | Calculator |
| Short Answer Section | Name : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | |
|  | Write all working and answers in the spaces provided on this Practice Test paper. | | | |
|  | **Questions 1 – 4 refer to the data below.**  Michael plays 9 holes of golf and scores the following number of strokes on each.  3, 4, 3, 5, 3, 2, 4, 5, 4 | | | |
| 1. | Show that the median of the data is 4.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 2. | Find the upper and lower quartiles of the data.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 3. | Find the interquartile range of the data.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 4. | Write a 5 number summary for the data.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
|  | **Questions 5 and 6 refer to the information below.**  Thelma records the scores she throws in a game of darts.  They were 57, 26, 45, 54, 7, 17, 63, 59, 140, 33. | | | |
| 5. | Write a 5 number summary for the scores.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 6. | Draw a box and whisker plot for the data, using the scale below. | | | |
|  | **Questions 7 – 10 refer to the following information.**  Josie and Adam record how much they spend each day for ten days, to the nearest $5.  Adam 15, 30, 10, 20, 210, 20, 15, 15, 30, 25  Josie 45, 55, 60, 20, 30, 30, 35, 25, 20, 70 | | | |
| 7. | Find the median of the two sets of scores.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 8. | Find the interquartile range of the two sets of scores.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 9. | Write a 5 number summary for the two sets of data.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 10. | Use your answers from above to compare the spending patterns of Josie and Adam.  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
|  | **Questions 11 – 12 refer to the box and whisker plot below.**  Twelve friends record the number of books they have read in the past month. | | | |
| 11. | What is the range of the scores?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |
| 12. | What is the interquartile range of the scores?  ..........................................................................................................................................................    .......................................................................................................................................................... | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Year  10 | | Data Interpretation and Comparison 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. | | | |
|  | Questions 1 – 3 refer to the box plot which shows the test results for a class. | | | |
| 1. | What is the median of the marks?  A. 5 B. 8 C. 9.5 D. 11 | | | |
| 2. | What is the interquartile range of the marks?  A. 5 B. 6 C. 9.5 D. 11 | | | |
| 3. | The data could be described as:  A. symmetrical B. positively skewed  C. negatively skewed D. unskewed. | | | |
| 4. | Kayla wrote a five number summary of her study times over the last fortnight. The upper quartile is has been smudged. If the interquartile range was 6, what was the upper quartile?  1.5, 2.5, 4, ~~Cy~~, 9  A. 7.5 B. 8.5 C. 10 D. 15 | | | |
| 5. | Which histogram could represent the same data as this box and whisker plot?  A. B. C. D. | | | |
|  | Questions 6 – 8 refer to the box plots shown which shows the scores that two entertainers were awarded by audience members at a show.    Tex  Julia | | | |
| 6. | What is difference in the ranges of their scores?  A. Tex had a range that was 6 more than Julia’s.  B. Tex had a range that was 5 less than Julia’s.  C. Tex had a range that was 11 more than Julia’s.  D. Tex had a range that was 18 more than Julia’s. | | | |
| 7. | What is difference in the interquartile ranges?  A. Tex had a interquartile range that was 4 more than Julia’s.  B. Tex had a interquartile range that was 5 more than Julia’s.  C. Tex had a interquartile range that was 9.5 more than Julia’s.  D. Tex had a interquartile range that was 11 more than Julia’s. | | | |
| 8. | Which is not true?  A. Tex’s median was 2.5 lower than Julia’s.  B. Tex’s lowest score was 7 lower than Julia’s.  C. Tex’s maximum score was 6 higher than Julia’s.  D. Tex’s median was the same as Julia’s lower quartile. | | | |

Data Interpretation and Comparison 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