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| A mini murder mystery  (data handling based) | | | | | |
| **Who**  One of these 4 people has committed a murder. Analyse the data below.  The suspects have all calculated the mean, median, mode and range of the set of data shown in the diagram. The murderer has got 3 answers wrong. The innocent people have all got at least 2 of the answers correct. | | | | | |
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| http://2.bp.blogspot.com/_9r8gnBhOijs/TAytLShCDKI/AAAAAAAABFA/8Ngd6C7_qss/s1600/78873-Royalty-Free-RF-Clipart-Illustration-Of-A-Caucasian-Cartoon-Dentist-Man-Holding-An-Extracted-Tooth.jpgPerson A said the following  Mode = 3  Median = 1  Mean = 75.42  Range = 5 | | | http://images.clipartof.com/small/439618-Royalty-Free-RF-Clip-Art-Illustration-Of-A-Cartoon-Arrogant-Boy-Making-Funny-Faces.jpgPerson B said the following  Mode = 3  Median =2  Mean =11.4  Range = 4 | | |
| http://t3.gstatic.com/images?q=tbn:ANd9GcTKTCfoMBqUwBQoGqwwVmF3sFZaZGiU0PNdpSPQhueQnwWYrBIT&t=1Person C said the following  Mode = 16  Median =2  Mean = 1.74  Range =5 | | | http://images.clipartof.com/small/439548-Royalty-Free-RF-Clip-Art-Illustration-Of-A-Cartoon-Smiley-Face-Artist.jpgPerson D said the following  Mode = 2 and 4  Median = 1  Mean =1.98  Range = 4 | | |
| **When**  Work out the date and time when the murder took place by analysing the following data.  You must find a day, and month then a time.  All will be numerical like 23/11 would be 23rd Nov and 16:35 would be 25 to 5 pm | | | | | |
| The day is the mean of this set of data | | | | 23, 32, 15, 39,31 | |
| The month is the median of the data | | | | 1.2, 1.9, 2.8, 2.9, 2.1,  2.1, 0.9, 2.7, 1.8, 1.0 | |
| The hour part of the time is the missing number x that would make the mean of these 4 numbers 20. | | | | 28, 29, 9, x | |
| The minutes part of the time is the range of | | | | 23, 32, 15, 39,31 | |
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| **Where**  The murder took place in a Yorkshire town  By analysing the data decide in which of the 4 towns it happened. | | | | | |
| This stem and leaf diagram shows the ages of the 13 people who were close to the place the murder was committed. | |  | | | |
| It was committed in York if the mode is 14, the median is 23 and the range is 8 | | | | | |
| It was committed in Harrogate if the mode is 4, the median is 23 and the range is 29 | | | | | |
| It was committed in Leeds if the mode is 14 and the median is 23 and the range is 9 | | | | | |
| It was committed in Doncaster if the mode is 14, the median is 23 and the range is 29 | | | | | |
| **It was dentist, silly boy, chef, artist**  **Date was\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Time was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**  **Town was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | | | | |