**STATISTICS**

**Q1.** Find the mean, median, mode, and range of each set of data set of data

**A.** 1 1 2 3 3 4 4 4 4 5 5   
**B.** 3.2 4.8 5.6 5.6 7.3 8.9 9.1   
**C.** 1 2 3 4 4 3 2 4 2 3 6 4 0  
**D**. 17 23 36 112 18 23 40 23   
**E.** 1 2 0 2 1 0 2 3 4 1 5 0 3 2 1

**Q2.** Two discus throwers keep a record of their best throws (in metres) in the last ten competitions.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Discus thrower A | 32 | 34 | 32 | 33 | 35 | 35 | 32 | 36 | 36 | 35 |
| Discus thrower B | 32 | 30 | 38 | 38 | 33 | 34 | 36 | 38 | 34 | 32 |

As a coach, you can only choose one of them for the next competition.  
Which would you choose? Justify your choice mathematically.

**Q3.** The mean mass of the 15 players in a rugby team is 85.2kg. The mean mass of the team plus a substitute is 85.4kg. What is the mass of the substitute?

**Q4.** After 8 matches a basketball player has a mean of 27 points. After ten matches his mean was 31 points. How many points in total did he score in his last two matches?

**Q5.** A factory makes tins of tomatoes. On the average, a full can should weigh 410g. A sample of 20 cans is tested. The weights are shown below.

410 410 411 412 408 411 409 414 416 410   
 410 412 413 415 410 415 409 410 412 411  
Does the canning machine need to be adjusted ? Give reasons for your answer