Delay CDC Writing Mrs. Josh

1

Problem: Will the mean or median increase if the last number in a data set is increased?

Mean-The average of a Lata set. It is found by adding each number together, then dividing by the amount of accept numbers.

Median-The middle
pumber in a data set.
It is found by arranging
the numbers from greatest
to least or [least to greatest],
then finding the number in the
middle: However, if there is
an even amound of numbers,
one must find the 2 middle
numbers, then get the
mean.

Claim: If the last number is increased in a data set, only the mean will increase. The median will remain the same. This is because the average would be brought up but the middle of the data set will not change.

Example Median Before 1. 274+5+9=2 Before. 1.51472113= 54 3, 24: 4=6 Mean = 16 Results 5 Cb Commentary: The data set (2,415,0) was used to supert the chain. To find the original mean, I added them together (244+5+0), and found the sum, which was 20. Next, I counted up how many numbers were in the set (4). Finally, I divided the sunt (20) by the numbers in the data set (4), getting a quotient of five. Therefore, the original mean of the data set * Sum it found when two op more numbers are alded to enchather, * quotient is the prosuer to a division problem.

Erin Gerhad D Blejc

3.

Commentary (continued). Then, I increased the last number to the data set (9-713). I added the numbers together (244,45+13) and 24. Then I divided be the amount of numbers in the data set (24:44), which lead to an answer of six. Therefore, the new mean we 6. 5 is less than six, so the riem did increase when the last number was increased. I found the median in a different way, first, I ordered the number. In this case, there were two (4,5). I found the number. In this case, there were two (4,5). I found the mean of these numbers (45-9-2-4.5), This made a the 9 for 13 this time. Still that needian remained the same, 24,5; to 3 this time. Still that needian remained the same. 24,5; to 3 this time. Still the median remained the median did not.

Restated Claim: In conclusion, when the last number In a duta set is increased, the median will not undergo any change. However, the median will is safe to say that while the middle will remain the same the dutae sets average will go ver