

CW on Mean, Median, Mode, Range, IQR, and Standard Deviation

Given : Data Set A): 10, 25, 21, 16, 28

1. Find the mode
2. Find the Median
3. Find the Range
4. Find the IQR

5. Find the Mean and the Standard Deviation $\sigma = \sqrt{\frac{\sum (x - \bar{x})^2}{n}}$

6. What attribute of a data set does the Mean, Median, and Mode measure?
7. Suppose another data set has an IQR greater than the IQR you calculated. What does the higher IQR say about the other data set compared to the data in Set A)?
8. If data in a different set are 12, 15, 13, 16, 18, without calculating the new standard deviation, would you expect a higher or lower standard deviation compared to the data in Set A? Explain your answer.