

AP Statistics

Summer (2021) Assignment

Define each of the following:

Mean –

Standard Deviation –

Variance –

Median –

Interquartile Range (IQR) –

Five-Number Summary –

Outlier –

Symmetric –

Skewed to the Right –

Skewed to the Left –

Z-Score –

Normal Distribution –

Normal Curve –

Here are the scores earned by Dr. Anderson's students on the first Statistics Test:

85, 76, 90, 67, 84, 100, 86, 74, 43, 92, 82, 78, 88

Part A:

Calculate the Mean, Standard Deviation, Variance, Median, Interquartile Range, and Five-Number Summary for this set of data. Are there any Outliers? (**Show all work**)

Part B:

Describe the Shape, Center, and Spread of this distribution of test scores. Is there anything unusual about the distribution?

Part C:

Olivia earned a 92 on this test. Calculate and interpret her z-score in the context of this problem.