

**Answer on Question #54883 – Math – Statistics and Probability**

Count: 100

Mean: 83.59

Median:93

Standard deviation: 22.26

IQR:17

Q1:80

Q3:97

**a)** Which is better summary of the percentage of white residents in the neighborhood, the mean or median?

**b)** Which is a better summary of the spread, the IQR or the standard deviation? Explain.

**Solution**

Pearson's skewness coefficient is

$$\frac{3(\text{Mean} - \text{Median})}{\text{Standard deviation}} = \frac{3(83.59 - 93)}{22.26} = -1.268.$$

**a)** A better summary of the percentage of white residents in the neighborhood is Median, because the distribution is so skewed to the left.

**b)** A better summary of the spread is IQR, because the distribution is skewed.