

# Appropriate Use of Statistical Measures

1. Find the mean, median, and mode of this data set:  
76, 74, 78, 72, 73, 80, 49, 72, 83

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2. Which measure of center best describes the data set? Why?

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3. Find the IQR and mean absolute deviation of the data set below.  
Round the mean absolute deviation to the nearest hundredth.  
13, 19, 17, 15, 11, 19, 18

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4. Which measure of variability best describes the data set in Exercise 3? Why?

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5. Find the mean, median, and mode of this data set:  
150, 138, 130, 127, 140, 108, 138

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6. **Critical Thinking** What number could be added to the data set in Exercise 5, so that the mean, median, and mode are all the same?

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7. **Writing to Explain** Ava found the mean, median, and mode of a data set. Then she discovered that she had not included a very high outlier in her calculations. How will the mean, median, and mode be affected by the inclusion of this outlier? Explain.

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