Measures of Variability

For **1** through **6**, use the following data set: 12, 20, 16, 10, 17, 9, 23, 13

1. What is the mean of this set?

_____

2. What is the absolute deviation from the mean for the following values:

 a. 12 _____

 b. 16 _____

 c. 20 _____

3. Which value in the original set has the greatest absolute deviation from the mean? Which has the least absolute deviation?

_____

4. What is the mean absolute deviation for the set?

_____

5. What is first quartile for the set? The third quartile?

_____

6. What is the IQR for the set?

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For **7** and **8**, use the following data set: 3, 7, 11, 15, 20, 31, 39, 42

7. Writing to Explain The data set shows the approximate hourly tides in feet recorded at a beach during an 8-hour period. What is the mean absolute deviation for the data set? Explain how you found it.

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8. Which is the IQR for the set?

 A 26 **B** 28 **C** 35 **D** 36