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**Readings**

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**Problem Set**

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Week 2: Univariate Descriptive Statistics &gt; Problem Set &gt; Question 3



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## Question 3

Here is a list of ten data values that are **sorted from smallest to largest**, but five of the data values are missing. The missing values are represented by A, B, C, D, and E.

2   A   3   B   6   C   9   D   15   E

Using the statistics below, find the missing values for the data set.

Mean = 8   Median = 6.5   Mode = 2   Range = 16  
IQR = 10

*Hint: You should not start by using the mean; save that for the end.*

(7/7 points)

3a.

A =

✓ Answer: 2

B =

✓ Answer: 5

C =

✓ Answer: 7

D =

► Week 3:  
Bivariate  
Distributions

✓ Answer: 13

E =

► Week 4:  
Bivariate  
Distributions  
(Categorical  
Data)

✓ Answer: 18

3b. Which of the statistics would change if each value in the dataset were **increased by 2**?

☐ Median, Range, IQR☐ Mean, Median, Range☒ Mean, Median, Mode ✓

3c. Which of the statistics would change if each value in the dataset were **multiplied by 2**?

☐ Mean, Median☒ Range, IQR, Mean, Median, Mode ✓☐ Mean, Median, Mode

*You have used 1 of 1 submissions*

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