

Name: Class:

Identify an outlier and describe the effects of removing it

Identify the outlier in the data set; 26, 27, 39, 32, 33, 79.
 If the outlier were removed from the set, would the mean increase or decrease?

Increase

Decrease

If the outlier were removed from the data set below, would the mean increase or decrease?
 (4, 25, 27, 31; 39, 36, 36, 38)

Increase

Decrease

If the outlier were removed from the data set below, would the mean increase or decrease?
 (31, 32, 39, 30, 90, 40, 37, 41)

Increase

Decrease

If the outlier were removed from the data set below, would the mean increase or decrease?
 (100, 90, 98, 80, 81, 60, 71, 69, 4, 77, 78, 89)

Increase

Decrease

If the outlier were removed from the data set below, would the mean increase or decrease?
 (13, 1, 1, 2, 3, 5, 4, 2, 1)

Increase

Decrease

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first of all identify the outlier. **The outlier is 79.**

Secondly, find the mean without the outlier and with the outlier

Mean with outlier = 39.33

Mean without outlier = 31.4

Finally, we compare the original mean and the mean without the outlier

You will see that the mean without the outlier is smaller than the original mean.

So, it implies that the mean would decrease if the outlier were removed from the set.

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