1. Your test grades are 70, 85, 95, 93, and 94. You have one more test and want an average of an86. What must you earn on your next test?
2. Your test grades are 60, 55, 68, 78, 80, 68, and 72. To pass this class your average must be a 70 or above. You have one more test to take. Is it possible for you to pass this class? Why or why not? If you can pass the class what score must you earn on the next test?
3. Consider the following data set: 13, 18, 13, 14, 13, 16, 14, 21, 13

* The mean is 15
* The mode is 13
* The median is 14

What would happen if the value of 20 was added to the data set?

How would the mean, median and mode change?

1. Consider the following data set: 13, 18, 13, 14, 13, 16, 14, 21, 13

* The mean is 15
* The mode is 13
* The median is 14

What would happen if a value “x”, was added to the set?

How would the median change:

If x was 16?

If x was another number in the list other than 16?

If x was a number not on the list?

1. Consider the data set: 70, 74, 77, 80, and 83. Identity the data values that remain the same if the value “x”, which is less than 70, is added to the set of data.
2. Your test grades are 90, 95, 83, 89, and 91. What must you earn on the next test to receive an average of 91?
3. You are comparing grades with a friend and he tells you that you cannot earn an A in the class. To receive an A in the class your test average must be a 93 or above. Your grades are 100, 79, 80, 92, 87, 60, and a 93. You still have one more test left. Is it possible to get an A in this class? Why or why not? If it is possible to earn an A what must you get on your next test?
4. Consider the following data set: 8, 9, 10, 10, 10, 11, 11, 11, 12, 13

* The mean is 10.5
* The median is 10.5
* The mode is 10 and 11

What would happen if the value of 10 was added to the data set?

How would the mean median and mode change?

1. Consider the following data set: 8, 9, 10, 10, 10, 11, 11, 11, 12, 13

* The mean is 10.5
* The median is 10.5
* The mode is 10 and 11

What would happen if a value of “x” was added to the set?

How would the mean change?

If x was not 12?

If x was another number on the list other than 12?

If x was a number not on the list?

10. Consider the data set: 48, 52, 55, 58, 60. Identify the data values that remain the same if “x”, a number greater than 55, is added to the data set.