

Analyzing Mean, Median, Mode

Name _____

Find the median of the data.

1. 5, 7, 5, 2, 7, 10

Find the NEW median of the data if you take out the number 5 from the list.

2. 5, 7, 5, 2, 7, 10

3. How does the old median compare to the new median?

4. Describe and correct the error in finding the modes of the data.

Data: 4, 8, 9, 8, 7, 4, 1, 2, 7, 8, 1, 4, 7, 6, 2, 1, 4

The modes are 1, 7, and 8.

5. The number of home runs per season for a baseball player for five seasons are listed below.

- a. Find the mean of the data.

5, 2, 12, 7, 14

- b. Find the NEW mean of the data if he had only 2 home runs in his 6th season.

5, 2, 12, 7, 14, 2

- c. How does the old median compare to the new median?

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Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. As part of a class experiment, Guillermo has to keep track of the number of hours he sleeps each night for five consecutive nights. The results are 8, 10, 8, 9, 6. For these 5 values, which is higher, the mean or the median?
- a. It cannot be determined c. the mean
b. they are equal d. the median
2. For two consecutive weeks, Jenny recorded the number of miles she ran each day from Monday through Saturday (she takes Sunday off). The results are in the table below.

Miles Run by Jenny During Two Consecutive Weeks		
Day	Week 1	Week 2
Mon	8	4
Tue	2	8
Wed	6	7
Thu	8	4
Fri	2	7
Sat	3	7

By how much did her median increase from week 1 to week 2?

- a. 1 c. 1.33
b. 4 d. 2.5

Name: _____

ID: A

3. Two balloon vendors, David and Cheryl, recorded the following numbers of sales during the first 5 hours of a carnival. (Numbers are listed in increasing order for each vendor.)

David:	7, 8, 8, 8, 10
Cheryl:	5, 5, 7, 9, 10

Which of the following statements is true?

- a. Cheryl has a higher *mode* than David.
- b. Cheryl has a higher *median* than David.
- c. Cheryl has a higher *range* than David.
- d. Cheryl has a higher *mean* than David.

Hint:

Find David's mean, median, mode, and range.

Then find Cheryl's mean, median, mode, and range.