Name: Date:

Before The Boom Block:

Before I let you guys loose on the different plots we will be creating and analyzing, I need for your measures of central tendency skills to be up to par. Are you up to this task? The fate of the world is depending on your skills!

Determine the measures of central tendencies for each of the following questions and answer any other questions posed.

1. Students in Mr. Z’s class and Ms. G’s class sold pet rocks for a school fund-raiser. The tables below show the number of boxes that each student sold.

|  |  |  |
| --- | --- | --- |
| Mr. Z’s Class | | |
| 5 | 8 | 76 |
| 15 | 16 | 84 |
| 7 | 11 | 13 |

|  |  |  |
| --- | --- | --- |
| Ms. G’s Class | | |
| 9 | 10 | 12 |
| 20 | 8 | 34 |
| 12 | 27 | 14 |

The mean is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The mean is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The mode is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The mode is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The median is:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The median is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

a. Is the mean a good representation of this data? Why or why not?

2. A sample of the scores from the Mock EOG are as follows from Mr. Z’s fourth block class.

41, 46, 39, 48, 40, 48, 47, 41, 42, 42, 44, 38, 39, 43, 48, 45

a. What would happen to the measures of central tendency if the two highest scores were removed?

The mean is:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The median is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The mode is: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Random Sampling Review

1. At JMA, the administration wants to know how most students get to school. Which sample would be considered a biased sample?

a. Every 10th student entering the cafeteria.

b. Every 10th student getting off a bus.

c. Every 5th student from an alphabetical list.

d. One student randomly chosen from every homeroom..

2. Mr. Z wants to determine the favorite sport in Charlotte. Which sample of people would give him the most accurate data?

a. Basketball coaches.

b. His neighbors with collegiate flags.

c. People at the grocery store.

d. Fans at a football game.

3. Which group of people would most likely be an unbiased sample to survey about the preference of school pizza?

a. Cafeteria staff

b. Workers of a pizza restaurant

c. Students who bring their lunch.

d. Random students throughout all lunch periods.

4. Reflect: If the median of a set of data is higher than the average, what type of conclusions could you say about the data you are analyzing?

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