

statistics and probability study guide

Statistics and Probability Study Guide: 7th Grade Math

Write each answer on a separate sheet of paper.



Random and unbiased samples:

- 1.) Mr. Walker wants to learn more about students' favorite lunch option. Decide whether each method for selecting his sample will be random and unbiased. Explain your answer.
 - a. Mr. Walker selects 3 students from each homeroom roster, and surveys those students.
 - b. Mr. Walker selects every student in line A of the cafeteria, and surveys those students.
 - c. Mr. Walker uses the school directory to select ten students from each grade level.
 - d. Mr. Walker places a survey in the school newspaper, asking students to complete the survey.
- 2.) A local reporter is doing a story on the communities' response to a new Wal-Mart being built in the area. Decide whether each conclusion is valid or not, and explain your answer.
 - a. The reporter surveyed four people at a local gas station, and concluded that the majority of the residents are opposed to the new store.
 - b. The reporter surveyed every 50th person from the town's phone directory, and concluded that two times as many people opposed the store, than were in favor of it.
 - c. The reporter surveyed 100 people at a rally protesting the store, and concluded that all of the residents are against the store being built.
 - d. The reporter surveyed every third member of the city council and concluded that the town is evenly divided.

Measures of Center:

- 3.) Calculate the mean, median, mode, range, and mean absolute deviation for each set of data.

a. 8, 6, 12, 15, 5, 7

b. -3, 7, -2, 1, 5, -6, -2, -6

c. -185, -72, -94, -73

- 4.) The tables below show the amount of rain that two cities received in the given months. Calculate the mean absolute deviation for both sets of data.

City A		City B	
Month	Inches of rain	Month	Inches of rain
January	15	January	6
February	39	February	6
March	12	March	10
April	28	April	6
May	6	May	6

- a. Calculate the MAD for both sets of data. What does the MAD tell us about city A and city B?
- b. Which city's MAD would be affected more if the month of May was taken out of the data? Explain.

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