Name: _____ Period: _____ Date: _____

The Mean and Mean Absolute Deviation Assignment   Math 6

Part 1: Describe the following terms using your own words.

a. Mean

Answer:

b. Variability

Answer:

c. Absolute Deviation

Answer:

d. Mean Absolute Deviation

Answer:

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The Mean and Mean Absolute Deviation Assignment   Math 6

Part 2: Interpret mean of the given set of data as:

a.   Fair share

b.   Balancing Point

Tom wants to know the typical number of glasses of water his friends drink in a day.

Below are the data he collected

6, 9, 8, 10, 7, 7, 9

Using cubes, interpret the mean as "fair share".

Solution:

a. Fair Share

b. Balancing Point

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The Mean and Mean Absolute Deviation Assignment   Math 6

Part 3: Find the mean of each set of data.

a.   Eggs Hens Lay
7, 6, 8, 7, 6, 8

b.   Study Hours (School Days)
2, 4, 4, 2, 3, 5, 3, 1

c.   GPA
87, 88, 90, 89, 86

d.   Hair Length (in inches)
16, 20, 18, 17, 18, 20, 17

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The Mean and Mean Absolute Deviation Assignment　　Math 6

Part 4: Find the MAD of each set of data in **Part 3**.

a.	Eggs Hens Lay
7, 6, 8, 7, 6, 8	

b.	Study Hours (School Days)
2, 4, 4, 2, 3, 5, 3, 1	

c.	GPA
87, 88, 90, 89, 86	

d.	Hair Length (in inches)
16, 20, 18, 17, 18, 20, 17	

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The Mean and Mean Absolute Deviation Assignment   Math 6

Part 5: Read the problem carefully, then answer the questions that follow.

The dot plots below show the different GPAs of 8 students from different groups.

Group A   **Group B**

75   80   85   90   95   100   75   80   85   90   95   100

GPA   **GPA**
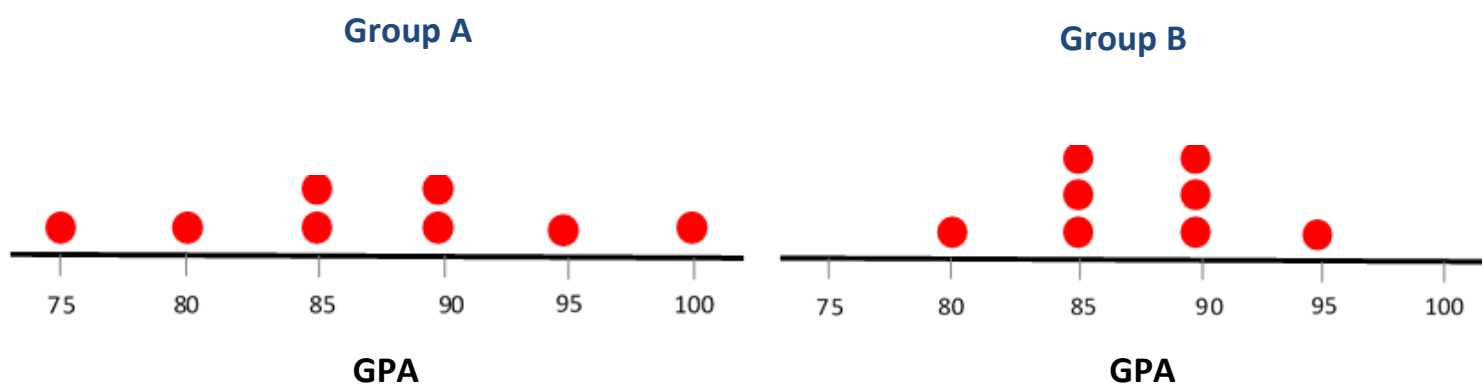
a. What is the mean GPA for each group?

b. What is the MAD of each set of data?

c. Which group has greater variability in the distribution?

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The Mean and Mean Absolute Deviation Assignment   Math 6

d. Which group has lesser variability in the distribution?

e. Which distribution has the mean that is a more accurate indicator of the typical test score?

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