On Your Own

You are going to gather your own data. Your random sample size must be 20 to 25 teenagers. Select one of the two bits of data to collect:

* **How many pairs of shoes do you have?**

**OR**

* **How many video games do you own?**

A) If you choose your sample to be a specific gender based on the question you choose, explain why you kept it to that one gender.

B) What kind of sampling method did you perform to gather your data set? Why did you use that method?

C) DATA COLLECTION: (Tell which data you collected)

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D) Make a Stem and Leaf plot of your data. Remember to include your key.

E) Make a dot plot of your data. Remember to label your axis.

F) Calculate the ***mean***, ***median***, and ***mode*** for your data set .

G) Describe the Shape, Center, and Spread of your data set. Are there any outliers?

SHAPE:

CENTER:

SPREAD:

OUTLIERS:

How do any outliers effect your measures of central tendency (mean, median, or mode)?

H) What conclusion(s) can you draw about teenagers and shoes or teenagers and video games based on your data collection? Can it be generalized to all teenagers? (be sure to discuss mean/median in your response)