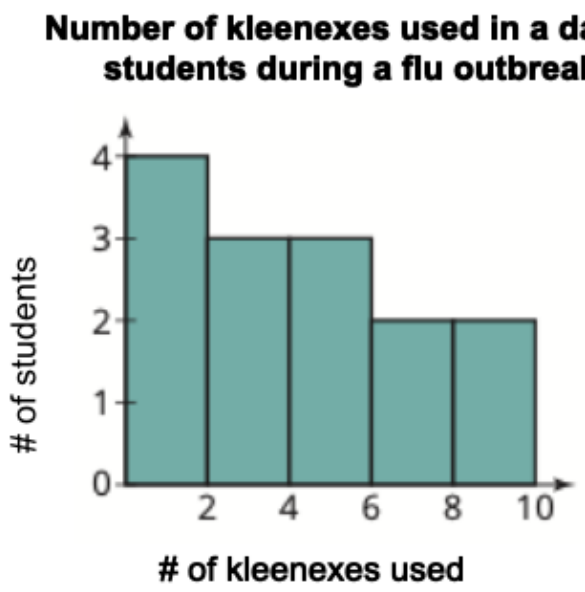
Unit 5 Review (S.ID.A)

Name:_____
Period: _____#:_____

1) This histogram represents the number of Kleenexes students used during a flu outbreak.



Approaching:
a) How many students are represented in the histogram?

b) How many students used 4 or more Kleenexes in a day?

Meeting:
c) Suppose the two measures of center are 3.5 kleenexes and 4 kleenexes. Which of the values is the mean and which is the median? Explain your reasoning.

2) Consider the following data set: 5, 7, 3, 8, 6, 8, 10. Do the following, and round answers to two decimal places, where necessary.

Approaching:
a) Calculate the mean for the data set. Show your work.

Meeting:
a) Calculate the sample standard deviation for the data set. Show your work.

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3) . A restaurant manager compared the number of hours different servers worked over one week. The table shows the number of hours worked per server.

Hours Per Server	20	21	14	21	21	12	18	23	20	23	12

Approaching:

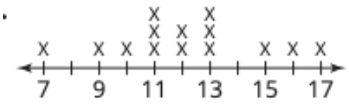
a) Construct a dot plot to represent the data. Use the number line provided.

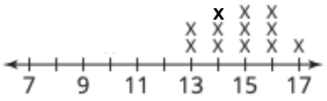
Meeting:

b) Determine the five-number summary of the data set. Label your answers.

c) Construct a box-and-whisker plot of the data. Use the number line provided.

4) Analyze the data sets below.





Approaching:
a) Describe the distribution of each data set. Is it evenly distributed, skewed left, or skewed right?

Meeting:
b) Predict which of the data sets has a higher standard deviation. Explain your reasoning.