

Name: \_\_\_\_\_  
Date: \_\_\_\_\_  
Class: \_\_\_\_\_

Algebra  
Unit 11  
HW 11-4

1) Find the mean, median, and mode for the following 2 sets of a data and find the IQR.  
Use these to compare the two sets of data:

3, 3, 4, 4, 5, 5, 6, 6, 7, 8, 8, 9, 9, 10, 10, 11, 11

5, 5, 6, 6, 7, 7, 8, 8, 9, 9

2) Find the standard deviation for both sets of data in #1.

3) Find the 3 pieces of information listed for the data below:

2, 1, 3, 4, 2, 2, 3, 1, 5, 3, 4, 4, 5, 6, 3, 8, 5, 4, 6, 3

mean

interquartile range (IQR)

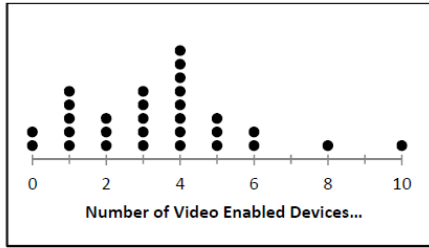
standard deviation

4) In a taste test, people are asked to decide which soda they like better and then their age is recorded in the proper column. Find the mean of each and the standard deviation of each. Which of the two measures would better show the diversity in age of people that like each soda?

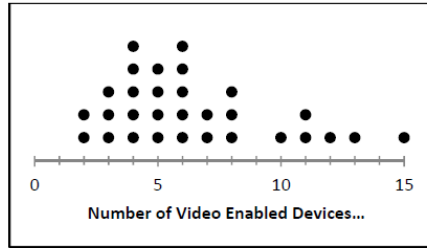
**Soda A:** 18, 16, 22, 16, 28, 18, 21, 38, 22, 29, 25, 44, 36, 27, 40

**Soda B:** 25, 22, 18, 30, 27, 19, 22, 28, 25, 19, 23, 29, 26, 18, 20

5) A survey is done in two ways, Survey A measures the number of video enabled devices in a random household and Survey B measures the number of video enabled devices in a household that has at least 1 teenager. Find the sample standard deviation for each. Which has a greater variation in its data?

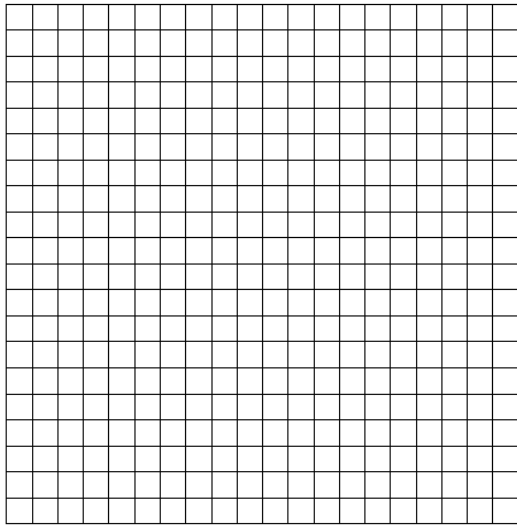


Survey A



Survey B

6) Create a frequency histogram for Survey B in #5



7) Create a cumulative frequency histogram for Survey A in #5

