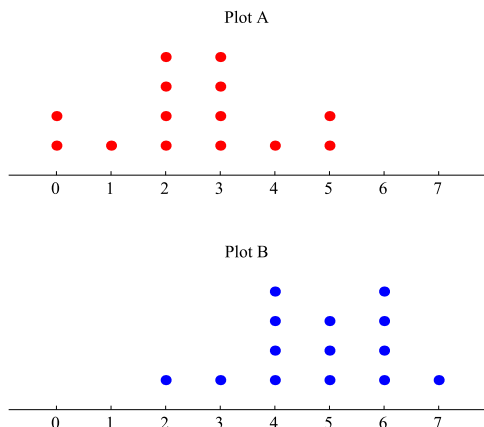


7.SP.3: Worksheet

The students in two seventh grade classes were asked, “How many hamsters have you seen on the side of the road in the past month?” The data was collected and a dot plot was created for each class. The two dot plots are shown in the graph below. (Class A’s box plot is above class B’s box plot.)



1. For what values do class A’s distribution and class B’s distribution overlap?
 2. Which measure should be used to compare the centers of the distributions?
 3. Which measure should be used to compare the spread of the two distributions?
 4. What is the mean of class A?
 5. What is the interquartile range of class B?
 6. By how many pets is the center of class B’s distribution greater than class A’s center?
 7. Using the interquartile range of each class, compare the variabilities of the two classes.
 8. Express the difference between the two medians as a multiple of the interquartile ranges.
- Numbers 9-10: The mean weight of the offensive linemen on the Roosevelt Middle School football team is 130 pounds with a mean absolute deviation of 10 pounds. The mean weight of the offensive linemen on the Taft Middle School football team is 150 pounds with a mean absolute deviation of 10 pounds.
9. By how many pounds is the mean weight of the offensive linemen on Taft’s team greater than the mean weight of the offensive linemen on Roosevelt’s team?
 10. By how many multiples of the mean absolute deviation is the mean weight of the offensive linemen on Taft’s team greater than the mean weight of the offensive linemen on Roosevelt’s team?