Name: Date:

From Dotplots to Boxplots

Background:

The dotplots below show the test scores data for two classes.
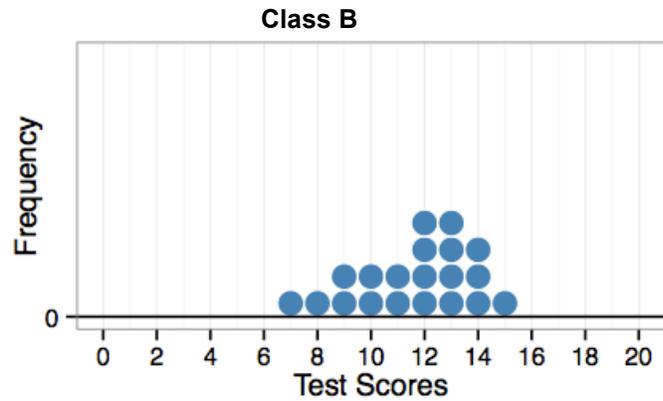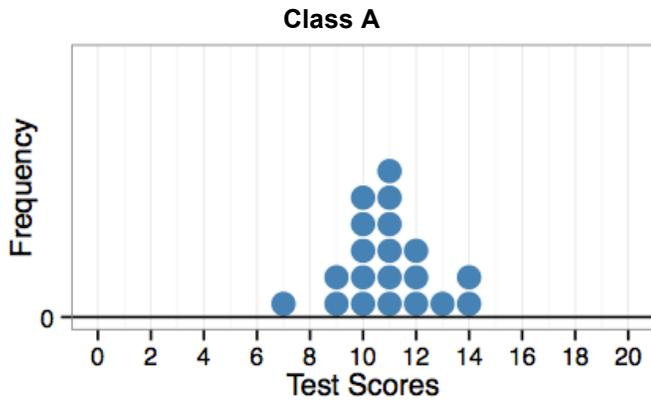
Class A

Class B

Instructions:

Create a boxplot of the data for each class. Use what you have learned about the components of a boxplot to sketch them using the data from the dotplots. Then compare the two boxplots and answer the questions that follow. Use evidence from the data to support your answers.

1. Draw boxplots for each class's distribution of test scores. Label all parts using values from the 5-number summaries.

Class A

Class B

From Dotplots to Boxplots

2. In which class did the middle 50% of the students do better? Include appropriate calculations, if necessary.

   Calculations:

   Answer:
   _____
   _____
   _____

3. In which class did the top 25% of students do better? Include appropriate calculations, if necessary.

   Calculations:

   Answer:
   _____
   _____
   _____

4. If you had to score in the bottom 25th percentile of students, which class would you rather be in? Explain your reasoning.

   _____
   _____
   _____
   _____
   _____
   _____