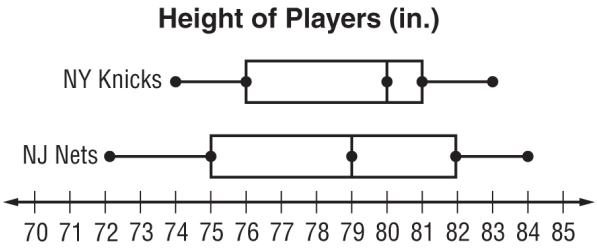
NAME _____ DATE _____ PERIOD _____

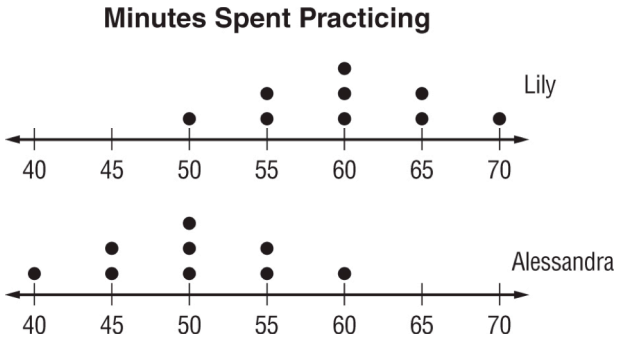
# 11-2: Comparing Populations

## *Compare Populations*

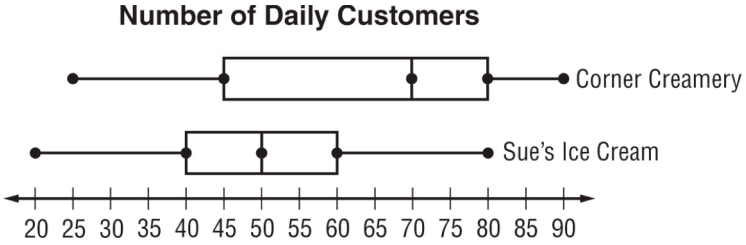
**1.** Based on the data to the right, what can you tell me about the NY Knicks and the NJ Nets?




**2.** Based on the data to the right, what can you tell me about Lily and Alessandra?




**3.** Based on the data to the right, what can you tell me about the Corner Creamer and Sue's Ice Cream?

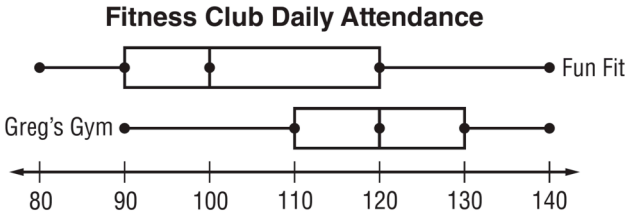


NAME _____ DATE _____ PERIOD _____

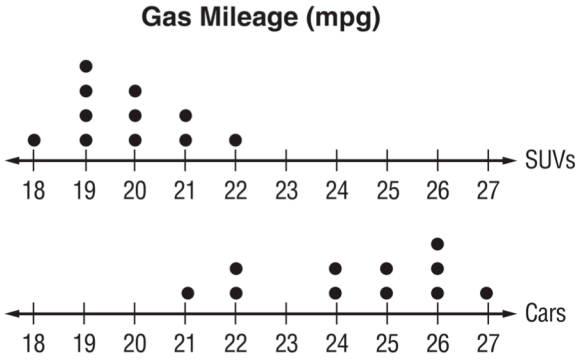
# *Compare Populations*

**Compare the centers and variations of the two populations in each exercise. Round to the nearest tenth if necessary. Write an inference you can draw about the two populations.**

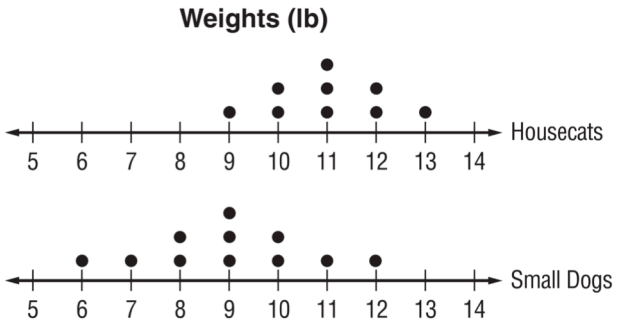
**5. FITNESS** The double plot shows the daily attendance for two fitness clubs for one month.




**6. GAS MILEAGE** The double dot plot shows the gas mileage, in miles per gallon, for several cars and SUVs.




**7. ANIMALS** The double dot plot shows the weights in pounds of several housecats and small dogs.

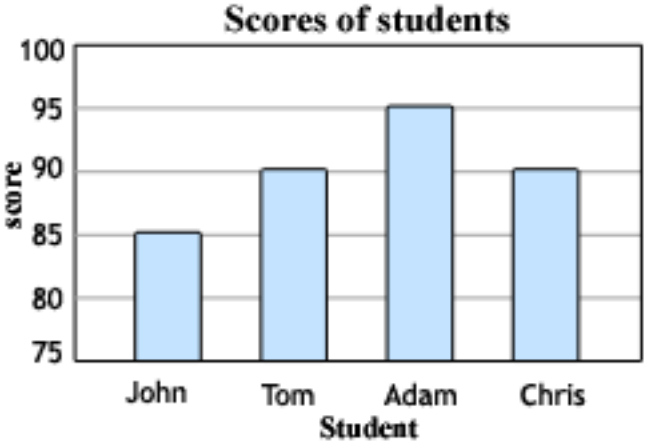


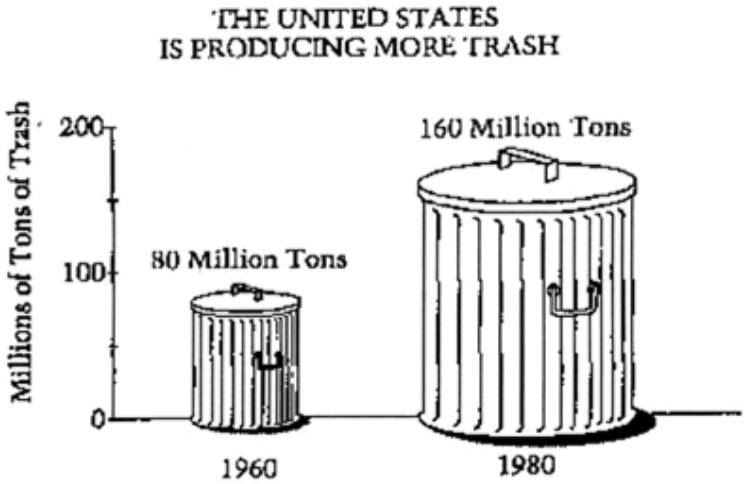

**8. NUTRITION** The double box plot shows the number of Calories per serving for various fruits and vegetables.

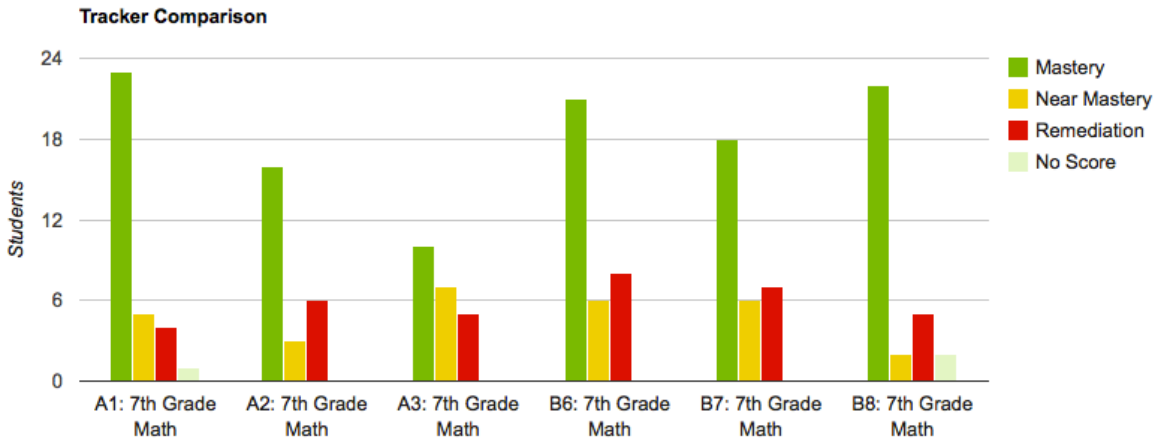
NAME _____ DATE _____ PERIOD _____

Graphs and charts are not always what they seem. You need to study them carefully; otherwise you could get the wrong impression.

The following graphs are misleading. Explain why.

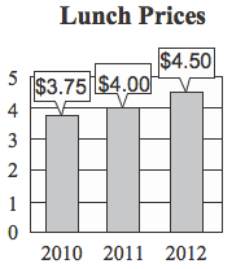


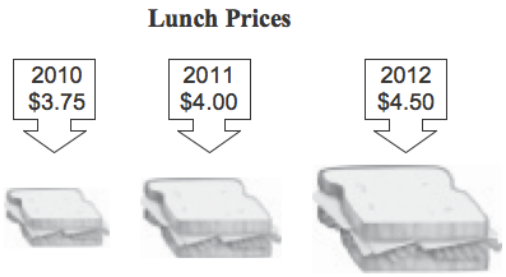



NAME _____ DATE _____ PERIOD _____

**9.** Which graph could be used to indicate a greater increase in yearly lunch prices? Explain. Is the graph you chose misleading?




Graph A




Graph B

_____

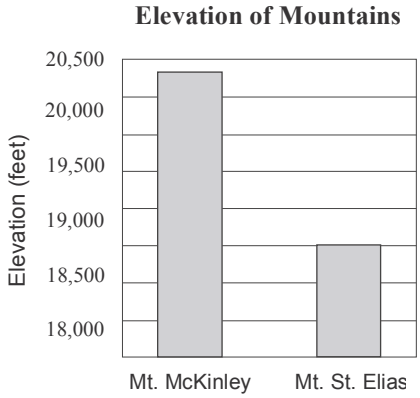
**For #10 and 11, use the graph that shows the elevation of the two highest mountain peaks in Alaska.**

**10.** Based on the <u>size of the bars</u> compare the elevations of the mountains.

_____

_____

_____




**11.** Explain how this graph may be misleading.

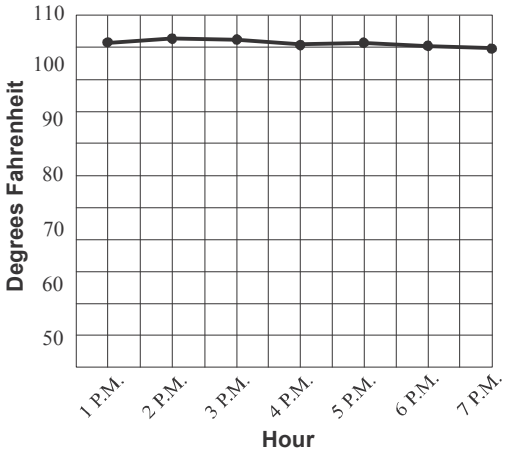
_____

_____

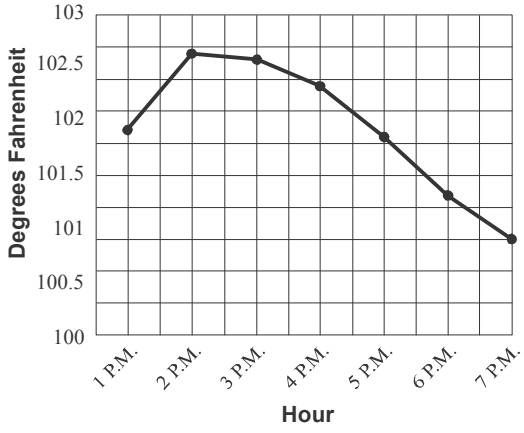
_____

**12.** The graphs below show the hourly body temperature for a hospital patient. Which graph would be more helpful to the doctor in showing the change in body temperature? Explain.

Graph A




Graph B




_____

_____