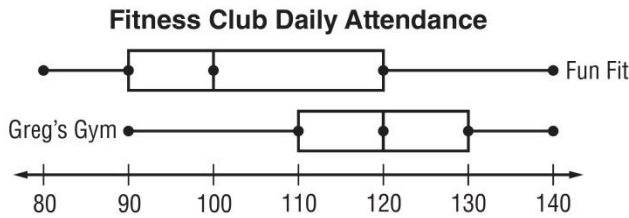**For #1 and #2, calculate the median and IQR of each data set. Compare the median and IQR of each set of data and determine which has the largest IQR.**

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

Fitness Club Daily Attendance

Fun Fit
Greg's Gym

80   90   100   110   120   130   140

2.   The following tables show a sample from two class homework scores.

Class A
10, 17, 25, 19, 30
23, 15, 21, 27, 13

Class B
24, 19, 10, 19, 30
23, 16, 26, 19, 21

For #3 and #4, calculate the Mean and the Mean Absolute deviation (MAD) of each data set, then compare the Mean Absolute Deviation (MAD) of each set and determine which is largest.

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

Weights (lb)

Housecats
5   6   7   8   9   10   11   12   13   14

Small Dogs
5   6   7   8   9   10   11   12   13   14
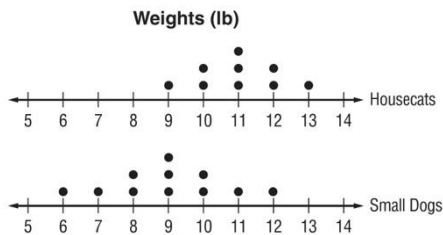
4. The two sets of data show a sample of the amount of how much money per hour employees working at 2 neighboring office buildings earn.

Building 1
18, 27, 10, 30, 17
24, 18, 25, 22, 16

Building 2
22, 19, 28, 18, 10
18, 30, 16, 22, 21

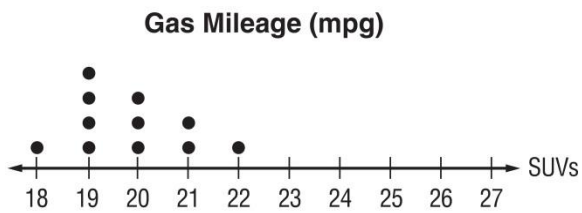Factor the following expressions.

5. $4x - 22$

6. $15x + 9y$

7. If a triangular window has sides that measure 4 feet and 5 feet what COULD the length be of the third side?

8. If a triangular window has two 35° angles, what is the third angle measure?

9. What is the IQR of the data below?

Gas Mileage (mpg)

10. What is the volume of a sphere that has a radius of 22 feet?