Box Plots

Find the median, lower quartile, and upper quartile of the data.

1. The amounts of juice in 12 glasses, in fluid ounces:
   11, 8, 4, 9, 12, 14, 9, 16, 15, 11, 10, 7
   Order the data from least to greatest:
   4, 7, 8, 9, 9, 10, 11, 11, 12, 14, 15, 16
   Median: 10.5
   Lower quartile: 8.5
   Upper quartile: 13

2. The lengths of 10 pencils, in centimeters:
   18, 15, 4, 9, 14, 17, 16, 6, 8, 10
   Median: 12
   Lower quartile: 8
   Upper quartile: 16

3. Make a box plot to display the data set in Exercise 2.

4. The numbers of students on several teams are 9, 4, 5, 10, 11, 9, 3, and 6.
   Make a box plot for the data.

Problem Solving

5. The amounts spent at a gift shop today are $19, $30, $28, $22, $20, $26, and $26. What is the median? What is the lower quartile?

   Median: $26
   LQ: $20

6. The weights of six puppies in ounces are 8, 5, 7, 5, 6, and 9. What is the upper quartile of the data?