Honors Statistics
Review: Percentiles and Box Plots

The data represents tree circumferences.

1.8	1.9	1.8	2.4	5.1	5.5	5.1	8.3	13.7	5.3	4.9	3.7	3.8	4.0	3.4
5.2	4.1	3.7	3.9	3.1										

Find the percentile that corresponds to the given circumference.	**Find the circumference that corresponds to the given percentile.**
1. 2.1	9. 15th
2. 4.8	10. 75th
3. 3.7	11. 10th
4. 10.5	12. 12th
5. 5.6	13. 55th
6. 9.4	14. 85th
7. 3.0	15. 95th
8. 8.8	16. 32nd

17. Write the five number summary for the data.
18. Sketch a boxplot for the data.
19. Does the boxplot appear to be fairly symmetrical, skewed left, or skewed right? Explain.
20. Determine if there are any outliers in the data set. Show your work.

Answers

1 15th
2 60th
3 30th
4 95th
5 90th
6 95th
7 20th
8 95th

9 2.15
10 5.15
11 1.85
12 1.9
13 4.05
14 5.4
15 11
16 3.7
17 5 number summary: 1,8, 3.25, 3.95, 5.15, 13.7
18 boxplot (title the boxplot and make equal increments)
19 Skewed right; there is less data to the right
20 2 outliers; 8.3 and 13.7