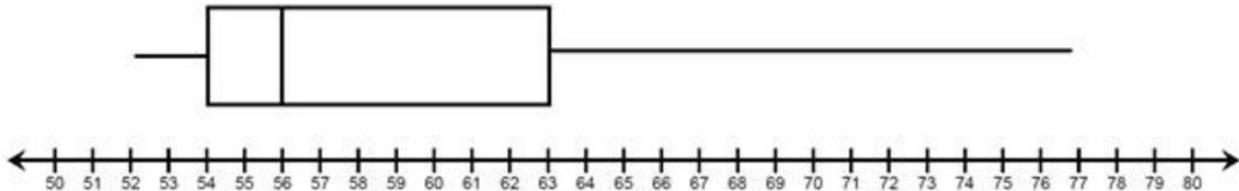


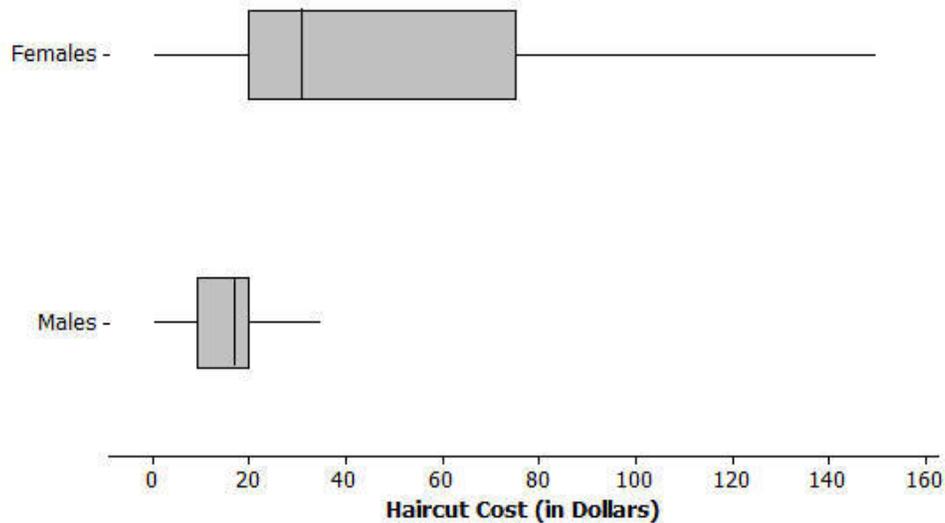
The boxplot below displays data for pounds of honey that were collected from 1000 various hives. Use it to answer the following questions.

Pounds of Honey Collected Per Hive

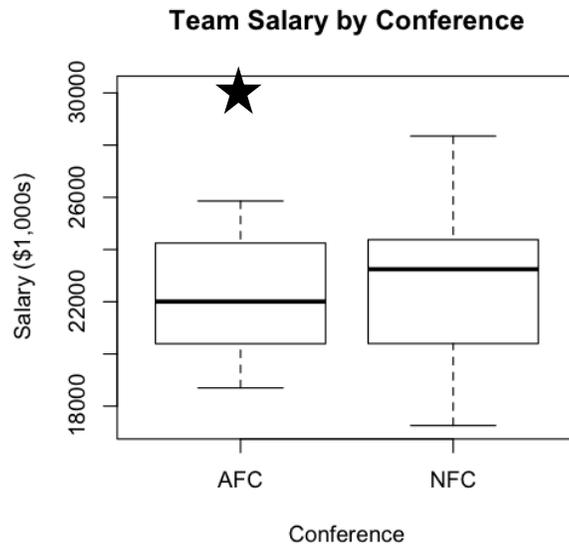


1. What percentage of hives had 63 lbs or below?
2. How many hives had 56 lbs or more?
3. The middle 50% of hives contained between _____ and _____ lbs of honey.
4. State the 5-number summary and calculate the IQR.
5. Was 77 lbs an outlier? Prove using the formula.
6. Describe the shape of this display. Explain how you knew the shape.
7. What is the best measure of center and spread? Why?
8. Describe the relationship between the mean and the median.
9. Jorge looks at the above boxplot and exclaims: most of the hives contained between 63 and 77 lbs of honey because that section is the widest! Is he correct? Why or why not?

The boxplot below displays data for the cost of a haircut for men and for women.



11. State the 5-number summary and calculate the IQR for female haircuts.
12. State the 5-number summary and calculate the IQR for male haircuts.
13. Which has the most variability? Justify your answer with numbers, calculations, and words.
14. Which group has the higher median cost?
15. What percent of the male haircuts costs more than \$20?
16. The top 50% of male haircuts are between what two prices?
17. What percent of the female haircuts costs less than \$20?
18. The bottom 50% of female haircuts are between what two prices?



19. State the 5-number summary and calculate the IQR for the AFC.

20. State the 5-number summary and calculate the IQR for the NFC

21. Which conference has the most variability in salaries? Justify your answer with calculations and vocabulary.

22. The top 50% of AFC team salaries are between _____ and _____.

23. The middle 50% of NFC team salaries are between _____ and _____.

24. There is one outlier (labeled with a star). Justify using the formula.

25. Describe the shape of the AFC boxplot. Describe the relationship between the mean and median.

26. Describe the shape of the NFC boxplot. Describe the relationship between the mean and median.