

6-3: Make Comparative Inferences About Populations

1. Sample answer: Data displays can be used to make inferences about two populations. You can use the shapes of the data displays or measures of center and variability to compare data sets. 11. A
2. Sample answer: The range and IQR are used when comparing box plots. The range and IQR describe the variability to compare data sets.
3. Sample answer: The box in the box plot for Data Set A is longer than the box in the box plot for Data Set B.
4. 6; 4
5. Sample answer: The flowers in Garden Y are generally taller than the flowers in Garden Z.
6. about 0.1°F lower than;
a higher
7. a. greater
b. less
c. 2
8. 1
9. Sample answer: The family might consider the range or IQR to determine how much the prices of homes vary in each town.
10. City Y; Sample answer: The range in temperature for each city is the same, so compare the interquartile ranges. The IQR for City X is $50 - 30 = 20$, and the IQR for City Y is $50 - 25 = 25$. Because $25 > 20$, City Y has more variability in temperature.