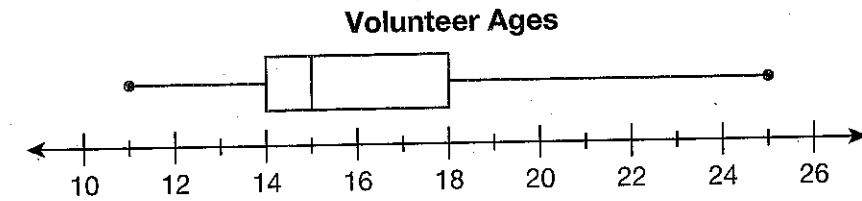


Practice

Use the box plot for questions 1–8.



1. What is the range? _____
2. What is the median? _____
3. What is the interquartile range? _____
4. What percent of the volunteers were between 14 and 15 years old? _____
5. What percent of the volunteers were between 15 and 18 years old? _____
6. Is there more variability in the lower half of the data or the upper half of the data? How do you know?

HINT The quartiles divide the data into 4 sections that each contain $\frac{1}{4}$ of the data.

7. Are there any extreme values? Explain.

REMEMBER The ends of the "whiskers" are actual values.

8. What does the box plot show about the variability of the ages?

Use the data for questions 9 and 10.

The following are the heights of students on a recreation soccer team, in inches:

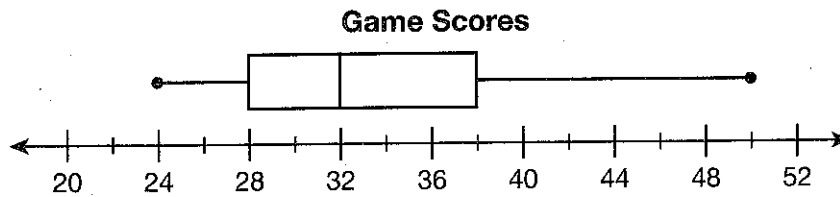
58, 53, 59, 58, 60, 57, 62, 55, 57, 56, 58, 59, 56

9. Make a box plot to show the data.

10. What does the box plot show about the variability of the heights?

Use the information and the box plot for questions 11–13.

The box plot shows the points scored during the season for Vickie's team.



11. What does the range tell about the variability in the scores?

12. What does the interquartile range tell about the variability in the scores?

13. What does the box plot show about the variability of the scores?

Solve.

14. **CONCLUDE** What is the five-number summary of a data set? How is it used to make a box plot?

15. **CONSTRUCT** The ages of the first 15 presidents at their first inaugurations are shown below.

57, 61, 57, 57, 57, 58, 57, 61, 54, 68, 51, 49, 64, 50, 48

Make a box plot of the data. What does the box plot show about the variability of the ages?
