Problem-Solving Practice
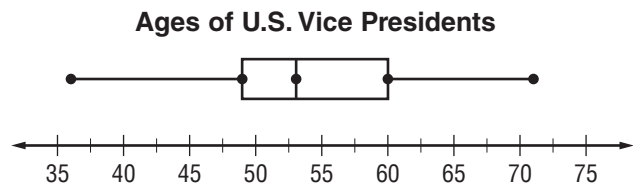
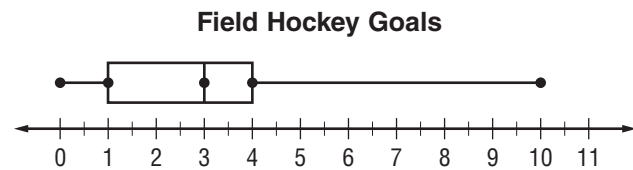## *Box Plots*

U.S. VICE PRESIDENTS Use the box plot that shows the ages of U.S. vice presidents when they took office.

Ages of U.S. Vice Presidents

1. Describe the distribution of the data. What can you say about the ages of U.S. vice presidents? **Sample answer: Half were between the ages of 49 and 60.**	**2.** What percent of U.S. vice presidents were at least 60 years old when they took office? Explain how you found your answer. **25%; Sample answer: the interval from 60 to the greatest value represents 25% of the data**
3. What percent of U.S. vice presidents were between the ages of 49 and 60 when they took office? Explain how you found your answer. **50%; Sample answer: the interval from the first quartile to the third quartile represents 50% of the data**	**4.** Can you determine from the box plot whether there are any U.S. vice presidents who took office at exactly age 55 years of age? Explain. **No; Sample answer: you can see only ranges, not individual ages.**

FIELD HOCKEY Use the box plot that shows the number of goals made by members of the field hockey team during the season.

Field Hockey Goals

5. Describe the distribution of the data. What can you say about the number of goals made by the members of the field hockey team? **Sample answer: Most made between 0 and 4 goals.**	**6.** What percent of team members scored between 1 and 3 goals this season? Explain. **25%; Sample answer: the interval from the first quartile to the median represents 25% of the data**