

16. **BASEBALL STATISTICS** In 2004, Ichiro Suzuki scored 101 runs. The numbers of runs he scored against different opposing teams are listed below. Make a box-and-whisker plot of the numbers of runs scored.

Runs scored: 18, 8, 4, 8, 2, 8, 0, 9, 0, 4, 2, 5, 9, 1, 2, 1, 2, 11, 7

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EXAMPLES
1 and 3

on pp. 887, 889
for Exs. 17–18

17. **RETAIL SALES** The retail sales (in billions of dollars) of the nine U.S. states with the highest retail sales in 2002 are listed below.

California: \$153.1	Florida: \$118.2	Georgia: \$38.4
Illinois: \$52.4	New Jersey: \$35.8	New York: \$54.7
Ohio: \$50.7	Pennsylvania: \$49.9	Texas: \$107.0

- Make a box-and-whisker plot of the retail sales.
- Which states, if any, had retail sales in 2002 that can be considered outliers?

18. **TAKS REASONING** The stem-and-leaf plot shows the ages of the first 43 presidents of the United States when they first took the oath of office.



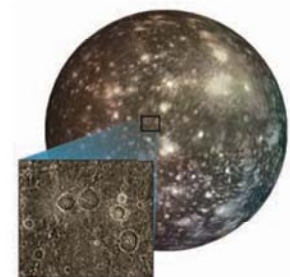
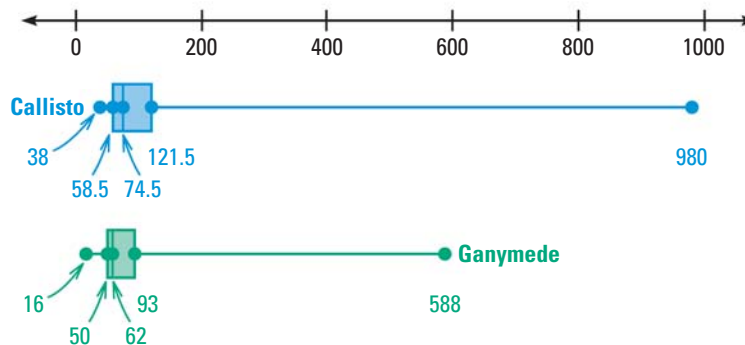
Key: 4 | 2 = 42 years

- Make a box-and-whisker plot of the ages.
- Ronald Reagan was the oldest United States president, and Theodore Roosevelt was the youngest. Can either of these presidents' ages be considered outliers? *Explain* why or why not.

EXAMPLE 2

on p. 888
for Ex. 19

19. **TAKS REASONING** The box-and-whisker plots show the diameters (in kilometers) of craters on Jupiter's moons Callisto and Ganymede.



Callisto

- Compare the diameters of craters on Callisto with the diameters of craters on Ganymede.
- The largest crater in the United States is the Chesapeake Bay in Virginia, with a diameter of 90 kilometers. Compare the diameter of the Chesapeake Bay with diameters of craters on Callisto and Ganymede.
- The largest crater on Earth is Vredefort in South Africa, with a diameter of 300 kilometers. Compare the diameter of Vredefort with the diameter of craters on Callisto and Ganymede.