

## 6<sup>th</sup> Grade Unit 6: Lesson 30-1

### Check Your Understanding (p. 395):

19. The dot plot shows the shape of the distribution better. It shows the mound shape and where the highest part (peak) is.
20. The box plot shows the median, quartiles, and interquartile range.

### Lesson 30-1 Practice (p. 396):

21.

Minimum	10
First Quartile	12
Median	13.5
Third Quartile	15
Maximum	17

22. *Answers will vary.* The distribution of ages for students belonging to the Drama Club is fairly symmetrical with a median of 13.5. The minimum age is 10 and the maximum age is 17 which make the range 7.  $Q1 = 12$  and  $Q3 = 15$  which makes the  $IQR = 3$ .

23. A

24. It spans 11 to 16 and it should only span 12 to 15. There should be a vertical line between 13 and 14 not 12 and 13. The horizontal lines should stretch from 10 to 12 on the left instead of 10 to 11 and from 15 to 17 on the right instead of no line.

25. a. Minimum and Median  
b. Q3 and Maximum  
c. Q1 and Q3