



PRACTICE



TUTORIAL

Name: _____

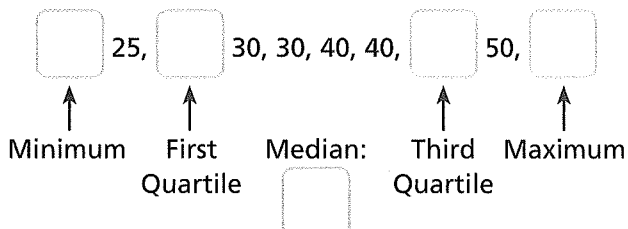
Practice & Problem Solving

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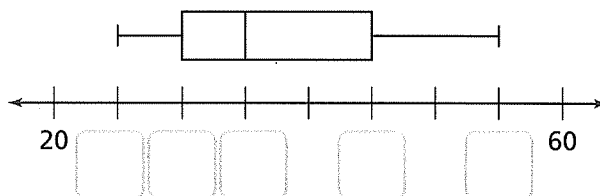
Leveled Practice In 9 and 10, use this data set, which shows how many minutes Enzo practiced violin each day for 10 days.

40, 25, 45, 55, 30, 25, 30, 50, 30, 40

9. Find the statistical measures that you need to make a box plot of Enzo's practice times.



10. Complete the box plot to represent Enzo's practice times.



In 11 and 12, use this data set, which shows the prices, in dollars, of tickets to 10 plays at the community theater.

14, 22, 8, 14, 16, 8, 20, 14, 10, 18

11. Find the minimum, maximum, median, and quartile ticket prices.

Minimum:	<input type="text"/>	First Quartile:	<input type="text"/>
Median:	<input type="text"/>	Third Quartile:	<input type="text"/>
Maximum:	<input type="text"/>		

12. Make a box plot to display the ticket prices.

In 13 and 14, draw box plots using the data provided.

13. The sprint times, in seconds, of students who tried out for the track team:

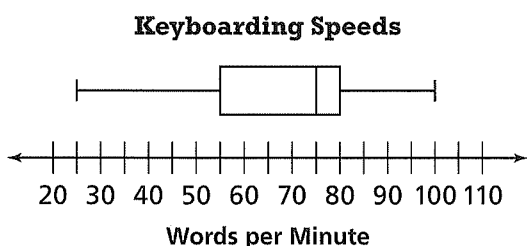
44, 40, 40, 42, 49, 43, 41, 47, 54, 48, 42, 52, 48

14. Scores earned on science tests:

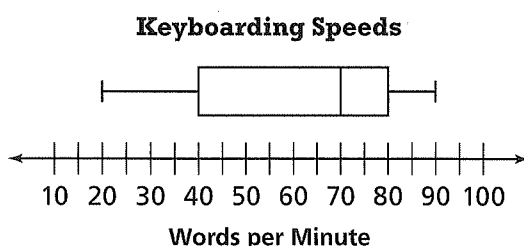
73, 78, 66, 61, 85, 90, 99, 76, 64, 70, 72, 72, 93, 81

In 15 and 16, use the box plot to answer the question.

15. How many words per minute does the fastest keyboarder type?



16. How many words per minute do the fastest 50% of keyboarders type?



17. **Reasoning** The price per share of Electric Company's stock during 9 days, rounded to the nearest dollar, was as follows: \$16, \$17, \$16, \$16, \$18, \$18, \$21, \$22, \$19.

Use a box plot to determine how much greater the third quartile's price per share was than the first quartile's price per share.

19. **Model with Math** Coach Henderson clocked the speeds in miles per hour of pitches thrown during the first inning of a middle school baseball game, as shown at the right.

Draw a box plot to display the data and write two conclusions about the data shown in the box plot.

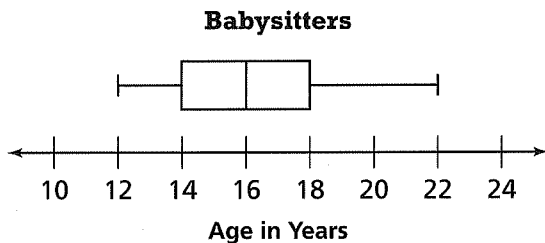
18. **Make Sense and Persevere** The temperature forecast for Topeka, Kansas, for the next 8 days is shown. Use a box plot to determine the range for the lower half of the temperatures.

DAILY HIGH TEMPERATURES							
SUN	MON	TUE	WED	THU	FRI	SAT	SUN
29°	31°	24°	26°	29°	35°	27°	32°

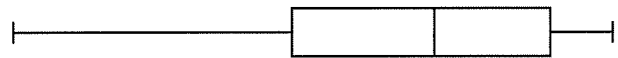
Speeds of Pitches Thrown
(in miles per hour)

45.3 47 48.1 51.3 55.8 61.1 48.5 60.7 49

20. **Critique Reasoning** Tanya recorded the ages of 10 local babysitters: 20, 16, 18, 13, 14, 13, 12, 16, 22, 18. She says that the box plot below shows the distribution of ages. What error did she make?



21. **Higher Order Thinking** Alana made this box plot to represent classroom attendance last month. Without seeing the values, what conclusions can you make about whether attendance was mostly high or low last month? Explain.



Assessment Practice

22. Use the data given to complete the box plot.

The ages in years of the students in Caryn's gymnastics class are shown in the table.

Ages of Students in Years

12 11 9 18 10 11 7 16 14 11 6

Complete the box plot to show the distribution of the students' ages.

