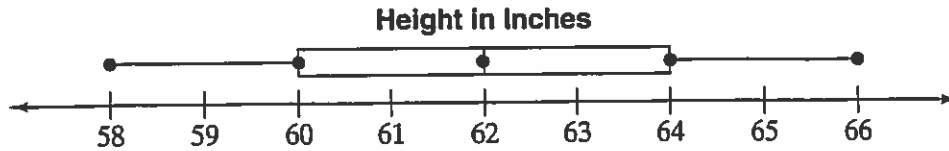


Practice 9-6

Box-and-Whisker Plots

Use the box-and-whisker plot to find each value.



1. the median height _____
2. the lower quartile _____
3. the upper quartile _____
4. the greatest height _____
5. the shortest height _____
6. the range of heights _____

Make a box-and-whisker plot for each set of data.

7. 8 10 11 7 12 6 10 5 9 7 10
8. 20 21 25 18 25 15 27 26 24 23 20 20

9. **Cargo Airlines in the U.S. (1991)**

Airline	Freight ton-miles (1,000,000s)
Federal Express	3,622
Northwest	1,684
United	1,214
American	884
Delta	668
Continental	564
Pan American	377
Trans World	369
United Parcel Service	210

10. **Immigration to the U.S. (1981–1990)**

Country	Number (1,000s)
Mexico	1,656
Philippines	549
China	347
Korea	334
Vietnam	281
Dominican Republic	252
India	251
El Salvador	214
Jamaica	208
United Kingdom	159

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9-6 • Guided Problem Solving

GPS Student Page 441, Exercise 14:

Racing Make a box-and-whisker plot for the data.

Average Speed of Daytona 500 Winners

Year	1998	1999	2000	2001	2002	2003	2004	2005
Speed (mi/h)	173	162	156	162	143	134	156	135

Understand

1. What three values will you need to make the box?

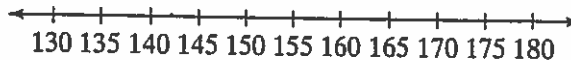
2. What two values will you need to make the whiskers?

Plan and Carry Out

3. Order the speeds from least to greatest and find the median.

4. Find the upper and lower quartiles by finding the medians of the upper and lower halves.

5. Use the number line at right. Use the median and the lower and upper quartiles to draw the box. Draw the whiskers from the box to the least and greatest values.



Check

6. Are all of the data displayed or is it summarized?

Solve Another Problem

7. A biology class consists of sophomores and a few freshmen. Make a box-and-whisker plot from the grades in the table.

Test Scores

Freshmen	89	78	91	87	92	89		
Sophomores	72	95	86	87	98	76	85	93

