

12-4 Reteaching (continued)

Box-and-Whisker Plots

Exercises

Find the minimum, first quartile, median, third quartile, and maximum of each data set.

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|---|---|
| <p>1. 72, 78, 61, 48, 59, 76, 65
 minimum = 48; first quartile = 59;
 median = 65; third quartile = 76;
 maximum = 78</p> <p>3. 3.6, 5.7, 8.3, 6.5, 2.9, 4.3, 5.1
 minimum = 2.9; first quartile = 3.6;
 median = 5.1; third quartile = 6.5;
 maximum = 8.3</p> | <p>2. 11, 12, 8, 19, 16, 10, 14
 minimum = 8; first quartile = 10;
 median = 12; third quartile = 16;
 maximum = 19</p> <p>4. 155, 151, 158, 156, 155, 153, 158
 minimum = 151; first quartile = 153;
 median = 155; third quartile = 158;
 maximum = 158</p> |
|---|---|

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

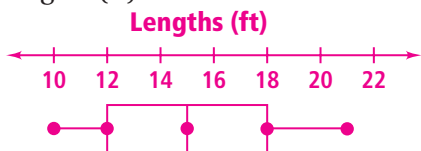
5. daily fair visitors: 2576 3255 1876 2285 3589 4277 996



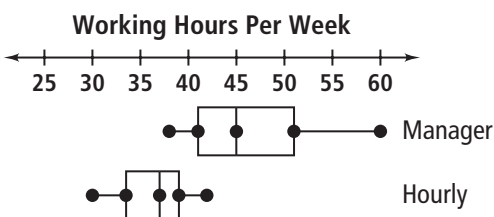
6. computer prices: \$1499 \$699 \$999 \$2999 \$499 \$4499 \$3299



7. lengths (ft): 15 21 10 17 12 14 18



8. Use the box-and-whisker plot below. What does it tell you about the number of hours each type of employee works for the company per week? Explain.



Managers work more hours per week than hourly employees because the manager's data is to the right of the hourly employee's data on the number line.

9. In a certain city with a working population of 10,500, 8925 people earn less than \$75,000 per year. What is the percentile rank of someone who earns \$75,000 per year? **85**