Find the mean, median, and mode. Which measure of central tendency best describes the data?

- 1. weights of textbooks in ounces 12 10 9 15 16 10
- 3. time spent on Internet in min/day 75 38 43 120 65 48 52
- 2. ages of students on math team 14 14 15 15 16 15 15 16
- 4. weights of channel catfish in pounds 4.8 5 2.3 4.5 4.8 5.2

121

Write and solve an equation to find the value of x.

Find the range.

12. 
$$2\frac{1}{2}$$
  $3\frac{1}{3}$   $-5\frac{3}{4}$   $\frac{3}{8}$   $3\frac{5}{8}$ 

13. For each list of data, find the range and the mean. Use the range to compare the spread of the data.

List 1

List 2

64 43 55 28 71

48 53 61 47 52

Make a stem-and-leaf plot for each set of data.

14. 18 35 28 15 36 10 25 22 15 le 4 120)

15. 18.6 18.4 17.6 15.7 15.3 17.5 17. 0.8 0.2 1.4 3.5 4.3 4.5 2.6 25

16, 785 776 788 761 768 768 785

Find the mean, median, mode, and range of each side of the stem-and-leaf plot of Tulip Plants le 5 Time Spent on (inches/day) 121) 18.

Homework (minutes/day)

Class B Class A 6643 4 11457 986444 5 02224 5210 6 4589 876642 7 367999 means 43 +3 |4 | 1 - means 41

Type B Type A 633 2 3211 3 112 1 4 358 5 24 means 0.33 ← 3 | 3 | 1 → means 0.31

Find the mean, median, mode, and range. kills

20. 9.8 7.2 6.3 8.7 5.8 9.4 5.1 6.2

21.3 -12 -1 -7 -2 0 -5 -1 -4 -2

22. 42.1 46.4 58.2 67.3 49.1 40.2 22.3 46.6

- 23. Critical Thinking The mean of a set of data is 7.8, the mode is 6.6, and the median is 6.8. What is the least possible number of data values? Explain.
- Crocodile Lengths 24. Wildlife Management A wildlife manager (meters) working at the Everglades National Park in Florida measured and tagged adult male 25 25 2.4 crocodiles. The data he collected are at the right. 2.4 2.3 2.8 a. What are the mean and median lengths of 2.1 2.2 2.5
  - the crocodiles?
  - b. The wildlife manager captured another crocodile. Its length was 3.3 m. What is the mean with this new piece of data? What is the median? Round to the nearest tenth.
- 25. Manufacturing Two manufacturing plants create sheets of steel for medical instruments. The back-to-back stemand-leaf plot at the right shows data collected from the two plants.
  - a. Find the mean, median, mode, and range of each set of data.
  - b. Which measure of central tendency best describes each set of data? Explain,
  - c. Reasoning Which plant has the better quality control? Explain.

## Width of Steel (millimeters)

23

2.4

Manufacturing Manufacturing Plant A Plant B		
	4	359
87442	5	27
431	6	34
	7	
means 6.1 - 1  6   3 - means 63		

- tion
- h of
- 26. Open-Ended Give an example of a set of data for which the mode best
- 27. Sports The median height of the 21 players on a girls' soccer team is 5 ft 7 is.

  What is the greatest possible work.
- What is the greatest possible number of girls who are less than 5 ft 7 in. tall? 28. Writing How does an outlier affect the mean of a set of data?