Find the mean, median, and mode(s) of the data.

1. 55, 42, 51, 66, 88, 102, 86

2. 12.5, 22, 18.5, 16.2, 12.8, 18.5

Find the range and mean absolute deviation of the data. Round to the nearest hundredth, if necessary.

3. 20, 45, 50, 40, 35

4. 1200, 1150, 950, 900, 800, 1000

The table shows the numbers of people enrolled in weekend art classes at an artists' workshop. No person is enrolled in more than one class. Use the table for Exercises 5–8.

	Oil Painting	Water Color	Charcoal Sketching	Total
Students	78	56	39	173
Adults	92	88	34	214
Total	170	144	73	387

5. How many adults are enrolled in oil painting classes?

6. How many students are enrolled altogether?

7. How many people altogether are enrolled in water color classes?

8. How many students are enrolled in either oil painting or water color classes?

9. GOVERNMENT PROJECT City officials want to know whether residents will support construction of a new library. This question appears on the ballot in the citywide election: "Do you support a tax increase to replace the old, deteriorating library with a brand new one?"Is the question potentially biased? *Explain* your answer. If the question is potentially biased, rewrite it so that it is not.

10. BASKETBALL The back-to-back stem-and-leaf plot shows the heights (in inches) of the players on a high school's basketball teams.

Basketball Players' Heights

Girls		Boys
9 7 7 6 6 5 3 3	6	9 9 9
3 2 1 1 0	7	0 0 0 2 4 4 6 6 7 7 7 8

Key: 3 | 6 | 9 = 63 in., 69 in.

a. Find the mean, median, and mode(s) of each data set. Which measure of central tendency best represents each data set? *Explain*.

b. Find the range and mean absolute deviation of each data set. Which team's heights are more spread out? *Explain*.

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

d. *Compare* the boys' heights with the girls' heights.