Name _____ Date _____

Practice B
For use with the lesson "Use Measures of Central Tendency and Dispersion"

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

1. 6, 1, 3, 8, 5, 11, 1, 5

2. 60, 81, 52, 75, 59, 81

3. 15, 27, 10, 25, 9, 22, 25

4. 23, 6, 8, 14, 28, 8, 13, 28

5. 16, 11, 14, 30, 22, 9, 19, 15

6. 4.2, 2.2, 3.7, 2.8, 1.1

For the set of data, determine which measure of central tendency best represents the data.

7. 89, 86, 96, 87, 100, 86

8. 38, 35, 40, 36, 36, 33, 42, 37, 39, 34

9. 50, 47, 48, 49, 72, 47, 54, 50

10. 115, 112, 127, 116, 123, 113

11. 87, 77, 151, 105, 65, 141, 104, 166

12. 100, 106, 180, 41, 161, 292, 116, 213

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

13. 10, 7, 13, 10, 8

14. 110, 114, 104, 108, 106

15. 87, 75, 85, 77, 74, 82

16. 15, 17, 15, 17, 21, 17, 15, 23

17. 40, 46, 41, 46, 49, 49, 46, 44, 44

18. 50.8, 51.6, 51.9, 52, 52.5, 52.8, 53.1

19. Bean Plants The heights (in inches) of eight bean plants are 28, 36, 41, 50, 35, 42, 46, and 52.

   a. What is the range of the bean plant heights?

   b. Find the mean, median, and mode(s) of the bean plant heights.

   c. Which measure of central tendency best represents the data? *Explain*.

20. Hotel Stay You are planning a trip to Washington, D.C. and are looking up hotel room rates. On the Internet, you find the following rates for a one-night stay in a hotel in Washington, D.C.

   $109, $126.50, $175.95, $139, $77.50, $145, $162.35, $173, $181.50, $105

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

   b. Which measure of central tendency best represents the data? *Explain*.

21. Temperature The high and low temperatures for the last seven days are given.

   High temperatures: 81°F, 78°F, 83°F, 89°F, 90°F, 87°F, 89°F

   Low temperatures: 64°F, 53°F, 62°F, 66°F, 68°F, 69°F, 67°F

   a. Find the mean, median, and mode of each data set. Round your answers to the nearest tenth.

   b. For each data set, determine which measure of central tendency best represents the data. *Explain*.

   c. *Compare* the spreads of data by using the range.

   d. *Compare* the spreads of data by using the mean absolute deviation. Round your answers to the nearest hundredth.