Name

1-7A Lesson Master

SKILLS Objective E

In 1–3, calculate the mean, the mean absolute deviation, and the range for each collection of data.

1. 3, 4, 7, 3, 6, 2, 9, 9, 5, 5, 6

mean: _____

mean absolute deviation: _____

range: _____

2. –0.3, 0.05, 1, 2.5, 0.2, 0.6

mean: _____

mean absolute deviation: _____

range: _____

3. –25, 64, 49, 4, 625, 400, 9, –81

mean: _____

mean absolute deviation: _____

range: _____

USES Objective I

4. Construct a data set of 8 items that has a mean of 5 and mean absolute deviation of 4.

_____

In 5–8, use the heights, in inches, of a group of students given below.
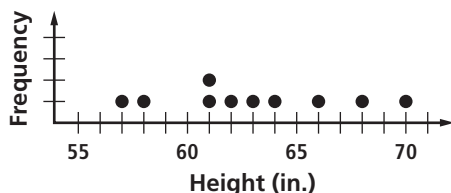
61, 64, 63, 58, 62, 57, 61, 66, 68, 70

5. What is the mean of the heights of the students?   _____

6. What is the mean absolute deviation of the heights of the students?   _____

7. In another group of students, the mean absolute deviation of the heights is 4.2 inches. In which group are the heights more consistent? Explain.

_____

_____

8. *Multiple choice.* A dot frequency diagram of the data is shown below. Which term best describes the shape of the graph?

A symmetric   **B** skewed left

C skewed right   **D** uniform _____