9.3

Name _____ Period _____

Find the median and mode(s) of the data. Write the numbers in order from least to greatest on the line.

1. 1, 3, 5, 6, 7, 9, 11

_____

Median: _____   Mode: _____

2. 12, 15, 10, 12, 21, 9, 12

_____

Median: _____   Mode: _____

3. 52, 61, 56, 55, 72, 64

_____

Median: _____   Mode: _____

4. 91, 96, 89, 97, 89, 98, 94, 93

_____

Median: _____   Mode: _____

5. Describe and correct the error in finding the median and mode of the data.

> ✗ **data:** 25, 28, 24, 22, 27, 24, 29, 26
>
> **ordered data:** 22, 24, 25, 26, 27, 28, 29
>
> The median is 26.
> There is no mode.

6. You sent the same email message to 10 of your friends. The numbers of hours it took them to reply were 1, 1, 1, 2, 2, 3, 4, 5, 5, and 25.

a. Find the mean, median, and mode of the data.

b. Which measure best represents the data: mean, median, or mode? Explain your reasoning.

c. Which data value is an outlier? Explain your answer.

d. Predict how the mean, median, and mode would change if you omit the outlier in the data list.