In your groups, make up your own set of 5 data between 0 and 100, inclusive, that would have the following characteristics. You’ll need to make a new set for each question.

1. The median is 40 and the mode is 50 for your data.

2. The mean is 40 and the mode is 50 for your data.

3. The mean is 40 and the median is 50 for your data.

4. The median is 40 and the mean is 50 for your data.

5. The median is 40 for your original 5 data, but it will significantly change (i.e., by more than 10 points) by including a sixth score of 100.

6. The median is 40 for your original 5 data, and it will not be significantly changed by including a sixth score of 100.

7. It is NOT possible to create 5 scores whose modes are 8 and 5 and whose median is 50. Explain why.