1. Create a hypothetical example of 10 exam scores with the properties that the mean equals 75 and the median is at least 10 points greater than the mean. Report the values of the mean and median for your example.

2. Suppose that the average amount of sleep obtained by Cal Poly undergraduates last night was 6.8 hours, and the average amount of sleep obtained by Cal Poly graduate students last night was 7.6 hours. Is it reasonable to conclude that the average amount of sleep obtained last night among all Cal Poly students was \((6.8 + 7.6)/2 = 7.2\) hours? Explain.

3. Another measure of center is called the midrange, which is defined to be the average of the smallest and largest values in the data. In other words, midrange = \((\text{maximum} + \text{minimum}) / 2\). Is the midrange resistant to outliers? Explain briefly.

For questions 4 and 5, suppose that an instructor teaches 5 classes with the following number of students in the classes:
- Class #1: 10 students
- Class #2: 10 students
- Class #3: 10 students
- Class #4: 10 students
- Class #5: 60 students

4. Determine the average (mean) number of students per class.

5. Now suppose that each of these 100 students reports the number of students in his/her class. Determine the average (mean) of these 100 responses.