Mean, Median, and Mode

1. Which statement is true about the data set 3, 4, 5, 6, 7, 7, 10?
   (1) mean = mode
   (2) mean > mode
   (3) mean = median
   (4) mean < median

2. Alex earned scores of 60, 74, 82, 87, 87, and 94 on his first six algebra tests. What is the relationship between the measures of central tendency of these scores?
   (1) median < mode < mean
   (2) mean < mode < median
   (3) mode < median < mean
   (4) mean < median < mode

3. From January 3 to January 7, Buffalo recorded the following daily high temperatures: 5°, 7°, 6°, 5°, and 7°. Which statement about the temperatures is true?
   (1) mean = median
   (2) mean = mode
   (3) median = mode
   (4) mean < median

4. The ages of five children in a family are 3, 3, 5, 8, and 18. Which statement is true for this group of data?
   (1) mode > mean
   (2) mean > median
   (3) median = mode
   (4) median > mean

5. Ms. Mosher recorded the math test scores of six students in the table to the right.

Student	Student Score
Andrew	72
John	80
George	85
Amber	93
Betty	78
Roberto	80

   Determine the mean of the student scores, to the *nearest tenth*. Determine the median of the student scores. Describe the effect on the mean and the median if Ms. Mosher adds 5 bonus points to each of the six students' scores.

6. The weights of all the students in grade 9 are arranged from least to greatest. Which statistical measure separates the top half of this set of data from the bottom half?
   (1) mean
   (2) mode
   (3) median
   (4) average

7. The values of 11 houses on Washington St. are shown in the table below.

Value per House	Number of Houses
$100,000	1
$175,000	5
$200,000	4
$700,000	1

   Find the mean value of these houses in dollars. Find the median value of these houses in dollars. State which measure of central tendency, the mean or the median, *best* represents the values of these 11 houses. Justify your answer.