NAME:_____

P.I. A.S.4: Compare and contrast the appropriateness of different measures of central tendency for a given data set

1. Compare the quantity in Column A with the quantity in Column B.
   4.6, 3.1, 5.8, 2.9, 3.4, 4.2, 3.7, 3.8, 4.1, 3.5

Column A	Column B
mean	median

   [A] The quantity in Column A is greater.

   [B] The quantity in Column B is greater.

   [C] The two quantities are equal.

   [D] The relationship cannot be determined on the basis of the information supplied.

2. A teacher allows her students to decide whether to use the mean, median, or mode to determine their test averages. One student determined that he will receive the highest average if he uses the mean. Which test scores are his?

   [A] 81, 85, 73, 82, 76

   [B] 92, 83, 76, 76, 93

   [C] 72, 83, 95, 70, 85

   [D] 81, 85, 70, 72, 85

3. For the three sets of numbers below, the value of x represents the same type of measure of central tendency (mean, median, or mode). Find the value of x for the fourth set of numbers.

5	4	17	13
10	12	24	13
35	16	24	15
45	20	24	25
50	40	27	29
	52		29
$x = 35$	$x = 18$	$x = 24$	$x =$ ___

4. For the three sets of numbers below, the value of x represents the same type of measure of central tendency (mean, median, or mode). Find the value of x for the fourth set of numbers.

5	4	10	11
20	20	17	13
25	24	17	15
45	28	17	27
50	32	23	27
	40		29
$x = 25$	$x = 26$	$x = 17$	$x =$ ___

[1] A

[2] B

[3] 20

[4] 21