

Statistics Homework

- Set A and Set B each consist of 5 distinct numbers. The 2 sets contain identical numbers with the exception of the number with the least value of each set. The number with the least value in Set B is greater than the number with the least value in Set A. The value of which of the following measures must be greater for Set B than for Set A?
 - Mean only
 - Median only
 - Mode only
 - Mean and Median only
 - Mean, Median, and Mode
- The list of numbers 41, 35, 30, X, Y, 15 has a median of 25. The mode of the list of numbers is 15. To the nearest whole number, what is the mean of the list?
 - 20
 - 25
 - 26
 - 27
 - 30
- Jimmy earned scores of 70, 75, 85, and 94 points on the first 4 history projects, and he has one more project to complete. What is the minimum score Jimmy needs to earn on the 5th project so that the mean of his scores on all 5 projects is at least 2 points more than the mean of the scores he earned on the first 4 projects?
 - 80
 - 81
 - 83
 - 91
 - 96
- What is the median of the list of numbers below?

6,3,5,7,12,9,5,5,11

 - 5
 - 6
 - 7
 - 9
 - 12
- George asked 11 people how many text messages each of them sent last week. Each of the 11 responses was in one of the intervals given in the table below. Which interval contains the median of the data?

# of text messages sent	# of responses
31-40	1
41-50	2
51-60	2
61-70	3
71-80	3

- a. 31-40
 - b. 41-50
 - c. 51-60
 - d. 61-70
 - e. 71-80
6. In a chemistry course, a student scored 99 on one test, 98 on another test, and 88 on each of the other tests. The student's test average for the course, where each test is weighted equally, is exactly 91. What is the total number of tests that the student has taken in the course?
- a. 3
 - b. 4
 - c. 5
 - d. 7
 - e. 12
7. The average of a list of 4 numbers is 90. A new list of 4 numbers has the same 1st 3 numbers as the original list, but the fourth number in the original list is 80, and the fourth number in the new list is 96. What is the average of this new list of numbers?
- a. 90.0
 - b. 91.5
 - c. 94.0
 - d. 94.5
 - e. 94.8
8. What is the mode of the data set given below?
23, 25, 27, 23, 29, 27, 25, 23, 32
- a. 23
 - b. 25
 - c. 27
 - d. 29
 - e. No Mode