

MS 102 QUANTITATIVE METHODS

ASSIGNMENT



Answer the following. (15 points)

Final answer should be written in nearest hundredths.

1. A researcher read a paper introducing a new test and found that 51 is the average score on the new test. The researcher believes that patients with schizophrenia will score less than the normal average on this test of executive function. He tested 22 patients with schizophrenia. The average score for the patients is 39 with a standard deviation of 4.3. Is there significant evidence at the 5 % level to support the researcher's claim? (5points)
2. The number of hours spent studying and scores in 60-item exam were recorded for ten randomly selected individuals. The results are given below.

<i>Score</i>	43	41	50	47	35	33	50	38	54	45
<i>No of Hours</i>	5	3	8	7	3	2	7	3	9	6

- a. Compute the correlation coefficient between the variables and interpret completely (4points)
- b. Test, if there is a significant relationship between hours spent and scores at 5% level of significance. (6points)

Prepared by:

mbrosas