

Assignment T-test

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1. Two sets of ten students selected at random from a college were taken. One set was given memory test as they were and the other was given the memory test after two weeks of training and the scores are given below.

Set A: 10 8 7 9 8 10 9 6 7 8

Set B: 12 8 8 10 8 11 9 8 9 9

Do you think there is a significant effect due to training?

2. A group of 5 patients treated with medicine A weighs (in kg) 42, 29, 48, 60 and 41 ; a second group of 7 patients from the same hospital treated with medicine B weighs (in kg) 38, 42, 56, 64, 68, 69 and 62. Do you agree with the claim that medicine B increases weight significantly.

3. Samples of two types of electric bulbs were tested for length of life and the following data were obtained

	Type I	Type II
No. of Samples:	8	7
Mean (hours):	1134	1024
SD (hours):	35	40

Test at 5 percent level, whether the difference in sample mean is significant.