

Lecture 6: Introduction to inferential statistics

Practice

Activity one

The following dataset represent comparison of the IELTS scores achieved by a randomly recruited sample of Algerian and Tunisia EFL learners.

	Algeria scores	Tunisian scores
	8	6
	6	4
	4	6
	7	5
	5	6
	4	8
Sum	34	35
Mean	5.67	5.83
Variance	2.67	1.77
Standard deviation	1.63	1.33

- Which advanced statistical test should be used with the above dataset?

Activity two

The following data represent the grammar tests elicited from randomly recruited participants on three occasions.

participants	grammar test 1	grammar test 2	grammar test 3
<i>student 1</i>	4	5	7
<i>student 2</i>	7	7	7
<i>student 3</i>	3	3	3
<i>student 4</i>	4	4	4
<i>student 5</i>	2	3	3
<i>student 6</i>	3	3	3
Sum	23	25	27
Mean	3.83	4.17	4.50
Sample variance	2.97	2.57	3.90
Standard deviation	1.72	1.60	1.97

- Which advanced statistical test should be used with the above dataset?