

Module 1. Introduction to Statistics (April 2023)

Question 1. There is an assumption that there is no significant difference between boys and girls with respect to intelligence. Tests are conducted on two groups and the following are the observations

	Mean	Standard Deviation	Size
Girls	89	4	50
Boys	82	9	120

Validate the claim with 5% LoS (Level of Significance).

Question 2. Analyze the below data and tell whether you can conclude that smoking causes cancer or not?

Category	Diagnosed as Cancer	Without Cancer	Total
Smokers	220	230	550
Non-Smokers	350	640	990
Total	680	910	1590