

KAU University

Stat 453

First semester-1429/1430 H

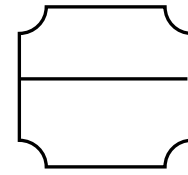
Science College

Quiz 1

Statistics Dep.

Student name:

ID:

**Question (1):**

Some researchers wanted to compare between two new types of medicines for treatment of nausea (الغثيان) after surgery (عملية), they selected a sample of 180 patients scheduled for surgery, 60 patients were given medicine (A), 60 patients were given medicine (B), the last 60 patients were not given any drugs for nausea.

After a short time, these patients were classified in terms of degree of nausea and the kind of medicine.

1) Create a data file and give the categories these names medicine and nausea:

	Degree of nausea				Total
	none	simple	moderate	high	
Medicine A	40	10	6	4	60
Medicine B	36	12	4	8	60
No Medicine	30	16	8	6	60
Total	106	38	18	18	180

2) By using the suitable test, Are these data indicating significant differences between the drugs used and their impact (تأثير) in reducing (تقليل) nausea after surgery?

Question (2):

This is an output of certain study, its goal was to know the consumers (مستهلكين) opinion for goods (سلع) before sale and after it, by using two different tests, complete the following:

preference before sale & preference after sale

preference before sale	preference after sale	
	0	1
0	9	6
1	2	8

Test Statistics^b

	preference before sale & preference after sale
N	25
Exact Sig. (2-tailed)	.289 ^a

- 1) The test used is
- 2) The number of consumers who extremely prefer goods before sale =.....
- 3) the size of sample =.....

Frequencies

	N
preference after sale - preference before sale Negative Differences	6
Positive Differences	16
Ties ^c	3
Total	25

- a. preference after sale < preference before sale
- b. preference after sale > preference before sale
- c. preference after sale = preference before sale

Test Statistics^b

	preference after sale - preference before sale
Exact Sig. (2-tailed)	.052 ^a

- 1) The test used is
- 2) The percentage of consumers who prefer goods after sale more than before it =.....
- 3) the hypothesis for this test:

$H_0:$

$H_1:$

Good luck

Mona Al-Zanbagi