

Take-Home Test In Research Statistics

Student's name:

Mark:

Group:

Task one

(10pts)

Survey of 200 students

Research questions

1. Do you own a computer?
2. Do you use moodle in your studies ?

H1: Students who own a computer use moodle in their studies.**Ho:** Students who own a computer don't use moodle in their studies

These are the observed frequencies

		Computer		Total
		Yes	No	
Moodle	yes	60	30	90
	no	70	40	110
Total		130	70	200

1. Calculate the **expected frequencies** (for the four cases) (4pts)
then calculate χ^2 (2 pts)
2. Finally, accept or refute the null hypothesis (4pts)

Task two

Suppose you decided to undertake a research entitled:

(10pts)

Developing EFL Students' speaking fluency through the task-based approach

1. Formulate an alternative hypothesis and a null hypothesis; indicate whether they are one-tailed or two-tailed.
2. Decide on the population/ sample to be used, mention the number of groups.
3. How will you describe, summarize and display the results?
4. Show the steps to be used in testing the hypothesis.

Remark: the answered must be printed and submitted on March 11th during the syllabus design exam at 10:30 in amphi.A.