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DS Exam Q22 - is the auto- ⌄

(/learn/inferential-statistics/profiles/1f7f042688de1cdf42d40ee185779133)

grader correct?

David Scott Exam time?
(/learn/inferential-statistics/module/jyCOE/dis
days ago
(/learn/inferential-statistics/discussions/CTbXU

There is more than one way to skin a cat for two-sided test of dependent proportions. They should all drive the same p-value, but the associated entry 0.xxx is not accepted.

Whether for a mcnemar (correct=FALSE) chi-squared or z-test as per course PDF, key values seem to be Pass/No Graduate (64) and Graduate/No Pass (81).

```
x <- matrix(data=c
(97, 64, 81, 158),
nrow=2, byrow=FALS
E)
```

This sets 64 and 81 as the key values as they are the off-diagonal entries. It could be reformatted for Pass/Graduate as x[1,1] and/or swap x[2,1] with x[1,2] (or both), but those all drive the same two-sided p-value.

The data are paired and a test of independent

proportions seems inappropriate. The p-values using mcnemar chi-squared (correct=FALSE) or z (course PDF) are the same.

Am I reading or interpreting the question wrong? Does the auto-grader want a format other than 0.xxx? Does it want the p-value from a continuity corrected mcnemar chi-squared (correct=TRUE)? Something else?

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Zara Bernstad, Teaching Staff - 4 days ago (/learn/inferential-statistics/discussions/CTbXUvgnEeWYIQ4BcV9YKQ/replies/8o7t8vpXEeWEAhLOZ9BW_w)

Hi David,

The autograder had an extra decimal place. It's changed now so your answer should be correct when you round to x.xxx. Very sorry about that!

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1

SD (/learn/inferential-

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statistics/profiles/f34069ce8df6de7dbebfedfb7e760d9f)

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