

χ^2 Test for Independence, in Excel

Is there a difference between men and women's attitudes to the Danish tax rate?

A study showed the following results:

observed number

What do you think of the Danish tax rate?	male	woman	Total
too high	69	62	131
suitably	103	112	215
too low	15	12	27
Total	187	186	373

H_0 (Null Hypothesis): There's no difference between men and women's attitudes to the tax rate.

- Calculate a table with the expected number under the Null Hypothesis.
- Calculate the critical value k , the test χ^2 , and the probability p .
- Determine on the level of significance 5%, whether the Null Hypothesis must be rejected.

a) Expected number

What do you think of the Danish tax rate	male	woman	Total
too high	67.66	63.34	131
suitably	105.66	109.34	215
too low	13.66	13.34	27
Total	187	186	373

The expected
is too high -
The expected

b)

level of sign

Numbers of

Number of d

degrees of fr

k - value:

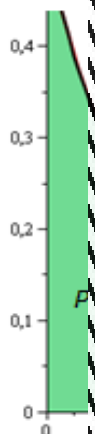
χ^2 - test:

p - value:

c) We may a

ificance level

ie. we can n



(C25)