

Fisher's Exact Test

Fisher's Exact Test

Import and test-specific preparation

Dataset Name

Notes

Output Created		16-JUL-2026 14:47:37
Comments		
Input	Data	D:\DATA ANALYSIS\ Chi Square and Categorical Data Tests\Fishers Exact Test\dataset.csv
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		DATASET NAME FishersExactTestData.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01

Warnings

The active dataset will replace the existing dataset named FishersExactTestData.

school into school_n

Old Value	New Value	Value	Label
-----------	-----------	-------	-------

GP	1	GP
MS	2	MS

reason into reason_n

Old Value	New Value	Value	Label
-----------	-----------	-------	-------

course	1	course
home	2	home
other	3	other
reputation	4	reputation

guardian into guardian_n

Fisher's Exact Test
Import and test-specific preparation

Old Value	New Value	Value	Label
father	1	father	
mother	2	mother	
other	3	other	

Fisher exact test

Fisher exact test
Conditional fixed-margin test for sex by internet access

Crosstabs

Notes

Output Created		16-JUL-2026 14:47:38
Comments		
Input	Data	D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Fishers Exact Test\dataset.csv
	Active Dataset	FishersExactTestData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Missing Value Handling	Definition of Missing	User-defined missing values are treated as missing.
	Cases Used	Statistics for each table are based on all the cases with valid data in the specified range(s) for all variables in each table.
Syntax		CROSSTABS /TABLES=sex_bin BY internet_bin /FORMAT=AVALUE TABLES /STATISTICS=CHISQ RISK /CELLS=COUNT ROW COLUMN EXPECTED /COUNT ROUND CELL.
Resources	Processor Time	00:00:00.02
	Elapsed Time	00:00:00.02
	Dimensions Requested	2
	Cells Available	524245

[FishersExactTestData]

Fisher exact test
Conditional fixed-margin test for sex by internet access

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Sex: 0 female, 1 male * Internet access: 0 no, 1 yes	649	100.0%	0	0.0%	649	100.0%

Sex: 0 female, 1 male * Internet access: 0 no, 1 yes Crosstabulation

			Internet access: 0 no, 1 yes		Total
			No / fail	Yes / pass	
Sex: 0 female, 1 male	Female	Count	98	285	383
		Expected Count	89.1	293.9	383.0
		% within Sex: 0 female, 1 male	25.6%	74.4%	100.0%
		% within Internet access: 0 no, 1 yes	64.9%	57.2%	59.0%
	Male	Count	53	213	266
		Expected Count	61.9	204.1	266.0
		% within Sex: 0 female, 1 male	19.9%	80.1%	100.0%
		% within Internet access: 0 no, 1 yes	35.1%	42.8%	41.0%
Total	Count		151	498	649
	Expected Count		151.0	498.0	649.0
	% within Sex: 0 female, 1 male		23.3%	76.7%	100.0%
	% within Internet access: 0 no, 1 yes		100.0%	100.0%	100.0%

Fisher exact test
Conditional fixed-margin test for sex by internet access

Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)	Exact Sig. (2- sided)	Exact Sig. (1- sided)
Pearson Chi-Square	2.819 ^a	1	.093		
Continuity Correction ^b	2.511	1	.113		
Likelihood Ratio	2.855	1	.091		
Fisher's Exact Test				.108	.056
Linear-by-Linear Association	2.815	1	.093		
N of Valid Cases	649				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 61.89.

b. Computed only for a 2x2 table

Risk Estimate

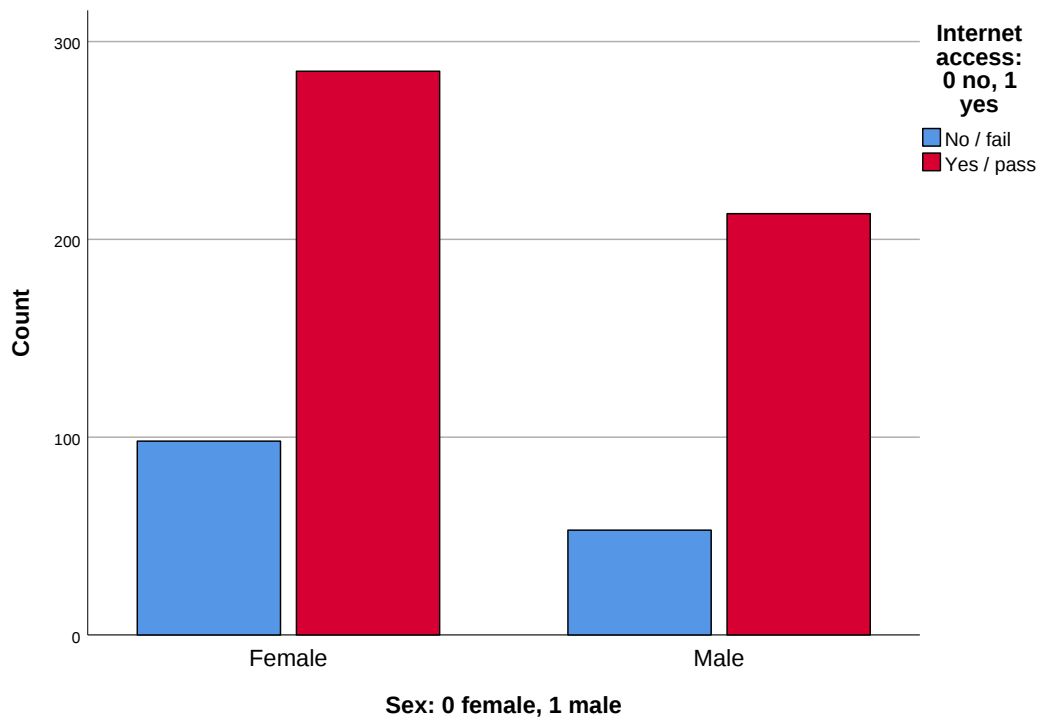
	Value	95% Confidence Interval	
		Lower	Upper
Odds Ratio for Sex: 0 female, 1 male (Female / Male)	1.382	.947	2.018
For cohort Internet access: 0 no, 1 yes = No / fail	1.284	.956	1.725
For cohort Internet access: 0 no, 1 yes = Yes / pass	.929	.854	1.011
N of Valid Cases	649		

Graph

Fisher exact test
Conditional fixed-margin test for sex by internet access

Notes

Output Created		16-JUL-2026 14:47:38
Comments		
Input	Data	D:\DATA ANALYSIS\ Chi Square and Categorical Data Tests\Fishers Exact Test\dataset.csv
	Active Dataset	FishersExactTestData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Syntax		GRAPH /BAR(GROUPED) =COUNT BY sex_bin BY internet_bin.
Resources	Processor Time	00:00:00.47
	Elapsed Time	00:00:00.53



Fisher exact test
Conditional fixed-margin test for sex by internet access

```
=====
=====
FISHER'S EXACT TEST
=====
=====
Formula:  $P(a \mid \text{margins}) = \frac{C(a+b, a) C(c+d, c)}{C(N, a+c)}$ 
Variables: sex, internet
fixed_col1 = 151
fixed_row1 = 383
observed_table_probability = 0.018486645108163866
sample_odds_ratio = 1.3819265143992057
two_sided_p_value = 0.10823626316432064
Cross-check status: pass
=====
=====
```