

Odds Ratio

Odds Ratio
Import and test-specific preparation

Dataset Name

Notes

Output Created		16-JUL-2026 14:42:52
Comments		
Input	Data	D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Odds Ratio\dataset.csv
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		DATASET NAME OddsRatioData.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.00

Warnings

The active dataset will replace the existing dataset named OddsRatioData.

school into school_n

Old Value	New Value	Value Label
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GP	1	GP
MS	2	MS

reason into reason_n

Old Value	New Value	Value Label
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course	1	course
home	2	home
other	3	other
reputation	4	reputation

guardian into guardian_n

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

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Internet access exposure by final-pass outcome

Crosstabs

Notes

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Comments		
Input	Data	D:\DATA ANALYSIS\I Chi Square and Categorical Data Tests\Odds Ratio\dataset.csv
	Active Dataset	OddsRatioData
	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=internet_bin BY pass3 /FORMAT=AVALUE TABLES /STATISTICS=RISK CHISQ /CELLS=COUNT ROW COLUMN EXPECTED /COUNT ROUND CELL.
Resources	Processor Time	00:00:00.03
	Elapsed Time	00:00:00.02
	Dimensions Requested	2
	Cells Available	524245

[OddsRatioData]

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Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Internet access: 0 no, 1 yes * G3 pass status at 10	649	100.0%	0	0.0%	649	100.0%

Internet access: 0 no, 1 yes * G3 pass status at 10 Crosstabulation

			G3 pass status at 10		Total
			No / fail	Yes / pass	
Internet access: 0 no, 1 yes	No / fail	Count	32	119	151
		Expected Count	23.3	127.7	151.0
		% within Internet access: 0 no, 1 yes	21.2%	78.8%	100.0%
		% within G3 pass status at 10	32.0%	21.7%	23.3%
	Yes / pass	Count	68	430	498
		Expected Count	76.7	421.3	498.0
		% within Internet access: 0 no, 1 yes	13.7%	86.3%	100.0%
		% within G3 pass status at 10	68.0%	78.3%	76.7%
Total	Count		100	549	649
	Expected Count		100.0	549.0	649.0
	% within Internet access: 0 no, 1 yes		15.4%	84.6%	100.0%
	% within G3 pass status at 10		100.0%	100.0%	100.0%

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Chi-Square Tests

	Value	df	Asymptotic Significance (2- sided)	Exact Sig. (2- sided)	Exact Sig. (1- sided)
Pearson Chi-Square	5.050 ^a	1	.025		
Continuity Correction ^b	4.489	1	.034		
Likelihood Ratio	4.756	1	.029		
Fisher's Exact Test				.029	.019
Linear-by-Linear Association	5.043	1	.025		
N of Valid Cases	649				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 23.27.

b. Computed only for a 2x2 table

Risk Estimate

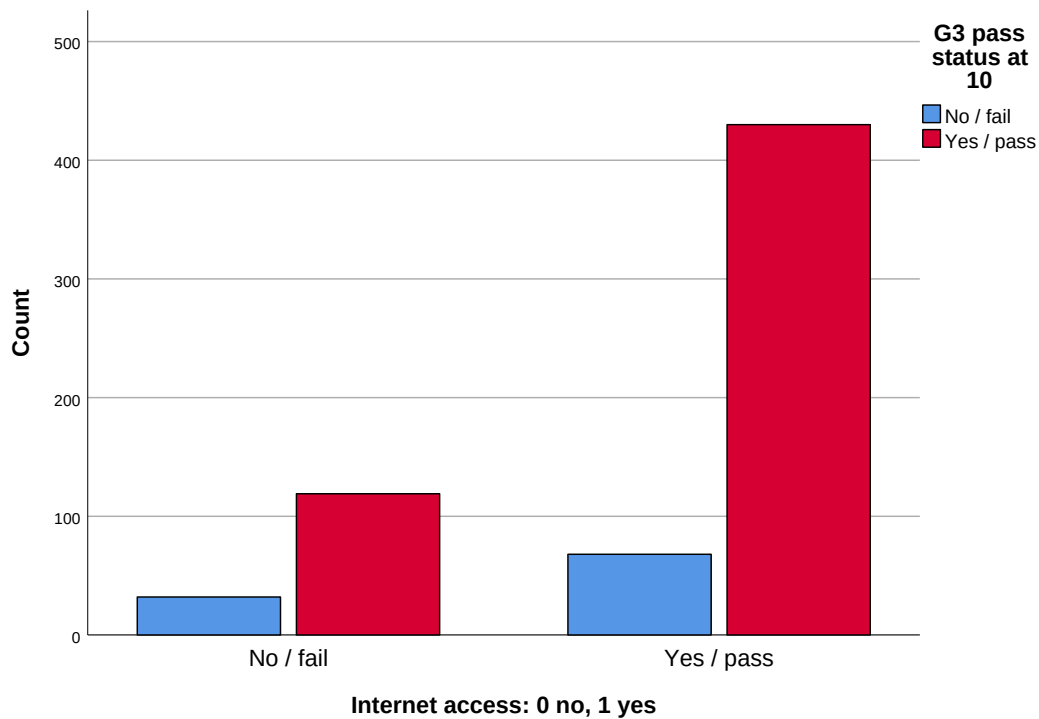
	Value	95% Confidence Interval	
		Lower	Upper
Odds Ratio for Internet access: 0 no, 1 yes (No / fail / Yes / pass)	1.700	1.066	2.712
For cohort G3 pass status at 10 = No / fail	1.552	1.063	2.266
For cohort G3 pass status at 10 = Yes / pass	.913	.834	.998
N of Valid Cases	649		

Graph

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	Active Dataset	OddsRatioData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Syntax		GRAPH /BAR(GROUPED) =COUNT BY internet_bin BY pass3.
Resources	Processor Time	00:00:00.37
	Elapsed Time	00:00:00.36



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ODDS_RATIO
=====
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Formula: OR = ad/(bc); SE[ln(OR)] = sqrt(1/a+1/b+1/c+1/d)
Variables: internet, G3 >= 10
ci_high = 2.7115743616779353
ci_low = 1.06635939763583
log_or = 0.5308899131996985
log_or_se = 0.2380857515535691
odds_ratio = 1.7004448838358872
Cross-check status: pass
=====
=====
```