

Risk Difference

Risk Difference

Import and test-specific preparation

Dataset Name

Notes

Output Created		16-JUL-2026 14:43:16
Comments		
Input	Data	D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Risk Difference\dataset.csv
	Filter	<none>
	Weight	<none>
	Split File	<none>
Syntax		DATASET NAME RiskDifferenceData.
Resources	Processor Time	00:00:00.00
	Elapsed Time	00:00:00.01

Warnings

The active dataset will replace the existing dataset named RiskDifferenceData.

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	

Risk difference

>Warning # 2004 on line 10479. Command name: SUBTITLE

>The subtitle given exceeds 60 characters in length. The first 60 characters
>will be used.

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Absolute final-pass probability difference for paid versus u

Crosstabs

Notes

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Comments		
Input	Data	D:\DATA ANALYSIS\Chi Square and Categorical Data Tests\Risk Difference\dataset.csv
	Active Dataset	RiskDifferenceData
	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=paid_bin BY pass3 /FORMAT=AVALUE TABLES /STATISTICS=RISK CHISQ /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

[RiskDifferenceData]

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Case Processing Summary

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

Paid classes: 0 no, 1 yes * G3 pass status at 10 Crosstabulation

			G3 pass status at 10		Total
			No / fail	Yes / pass	
Paid classes: 0 no, 1 yes	No / fail	Count	91	519	610
		Expected Count	94.0	516.0	610.0
		% within Paid classes: 0 no, 1 yes	14.9%	85.1%	100.0%
		% within G3 pass status at 10	91.0%	94.5%	94.0%
	Yes / pass	Count	9	30	39
		Expected Count	6.0	33.0	39.0
		% within Paid classes: 0 no, 1 yes	23.1%	76.9%	100.0%
		% within G3 pass status at 10	9.0%	5.5%	6.0%
Total	Count		100	549	649
	Expected Count		100.0	549.0	649.0
	% within Paid classes: 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	1.872 ^a	1	.171		
Continuity Correction ^b	1.298	1	.254		
Likelihood Ratio	1.682	1	.195		
Fisher's Exact Test				.172	.129
Linear-by-Linear Association	1.869	1	.172		
N of Valid Cases	649				

a. 0 cells (0.0%) have expected count less than 5. The minimum expected count is 6.01.

b. Computed only for a 2x2 table

Risk Estimate

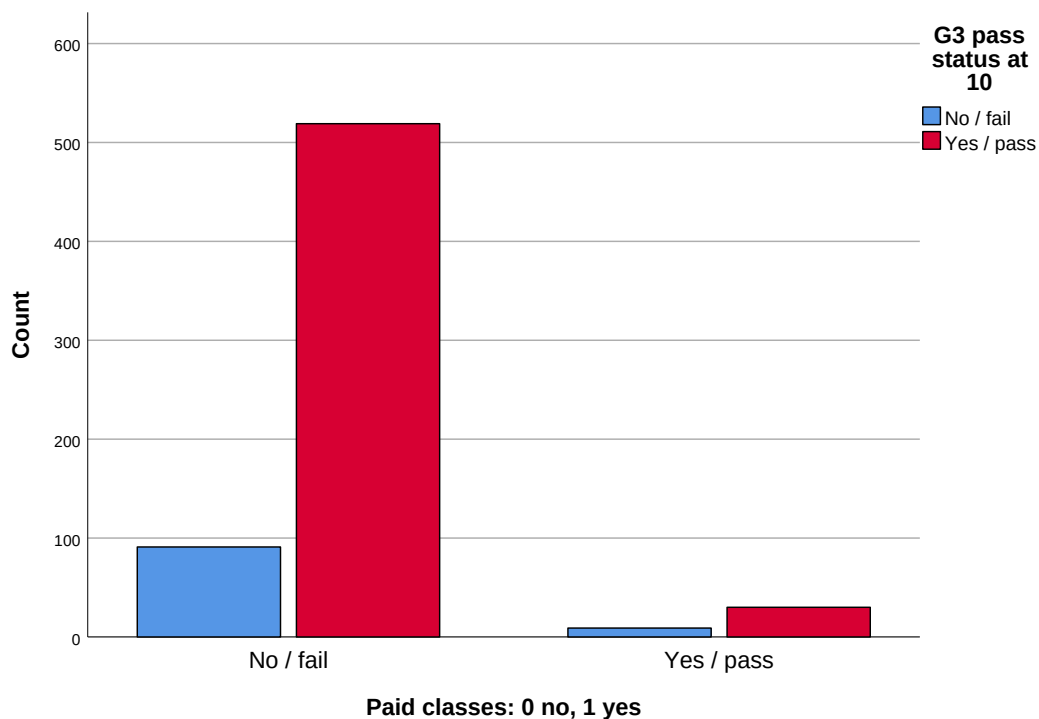
	Value	95% Confidence Interval	
		Lower	Upper
Odds Ratio for Paid classes: 0 no, 1 yes (No / fail / Yes / pass)	.584	.269	1.272
For cohort G3 pass status at 10 = No / fail	.646	.354	1.182
For cohort G3 pass status at 10 = Yes / pass	1.106	.928	1.318
N of Valid Cases	649		

Graph

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	Active Dataset	RiskDifferenceData
	Filter	<none>
	Weight	<none>
	Split File	<none>
	N of Rows in Working Data File	649
Syntax		GRAPH /BAR(GROUPED) =COUNT BY paid_bin BY pass3.
Resources	Processor Time	00:00:00.37
	Elapsed Time	00:00:00.39



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RISK DIFFERENCE
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Formula: RD = p_1-p_0; SE = sqrt[p_1(1-p_1)/n_1 + p_0(1-p_0)/n_0]
Variables: paid, G3 >= 10
newcombe_ci_high = 0.027079852006960003
newcombe_ci_low = -0.23639378095654875
paid_risk = 0.7692307692307693
risk_difference = -0.08158890290037824
unpaid_risk = 0.8508196721311475
wald_ci_high = 0.05363314402739655
wald_ci_low = -0.21681094982815302
wald_se = 0.06899084026927285
Cross-check status: pass
=====
=====
```