

Independent means practice

Group A	Group B
10	7
12	9
14	11
16	13
18	15
	17

Summary	Group A	Group B
Count	5	6
Mean	14.000000	12.000000
Sample variance	10.000000	14.000000
Null difference (A - B)	0	
Known variance A	9	
Known variance B	16	

Two-sided t comparison	Pooled	Welch
Estimated variance (pooled)	12.222222	
Standard error	2.116951	2.081666
t statistic	0.944755	0.960769
Degrees of freedom	9.000000	8.989362
Two-sided p-value	0.369455	0.361797
Observed difference A - B	2.000000	

Known-variance z	
Standard error	2.113449
z statistic	0.946320
Two-sided p-value	0.343985

Amber cells are editable. Keep A10 blank; ranges are fixed.

Original synthetic data: A has 5 values; B has 6 values.

Try $A5 = 20$ instead of 10, then restore $A5 = 10$.

Pooled assumes equal population variances; Welch does not.

Known variances 9 and 16 are assumed, not sample estimates.

Null difference is 0. Examples use two-sided probabilities.

Gnumeric 1.12.62 on Linux: worksheet formulas tested headlessly.

This is not an Analysis Tool report or an interface screenshot.

XLSX export is tested in Gnumeric, not Excel or other apps.

Guide: spreadsheet-tutorials.com/gnumeric/tutorials/independent-sample-mean-tests/

Original practice data by Spreadsheet-Tutorials.com