

wine data.xlsx - Microsoft Excel

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Function Library

G8 f_x

	A	B	C	D	E
1	ID	Glasses			
2	1	0			
3	2	3	sample size		=COUNT(B2:B21)
4	3	7	sample mean		=AVERAGE(B2:B21)
5	4	15	sample SD		=STDEV.S(B2:B21)
6	5	2			
7	6	1	hypothesised value		5
8	7	0			
9	8	0	standard error		=E5/SQRT(E3)
10	9	10	test statistic t		=(E4-E7)/E9
11	10	3	degrees of freedom		=E3-1
12	11	4			
13	12	8	p-value (lower tail)		=T.DIST(E10,E11,TRUE)
14	13	1	p-value (upper tail)		=1-E13
15	14	7	p-value (2 tail)		=2*MIN(E13,E14)
16	15	7			
17	16	4			
18	17	4			

wine data Sheet1

Figure 8.16