

Obs	group	y
1	2	52.1
2	2	54.4
3	2	54.6
4	2	55.0
5	1	58.1
6	2	58.7
7	1	59.1
8	2	59.3
9	2	60.1
10	1	60.3
11	1	61.3
12	2	62.5
13	1	63.4
14	1	65.0
15	1	65.1
16	1	67.8

The TTEST Procedure

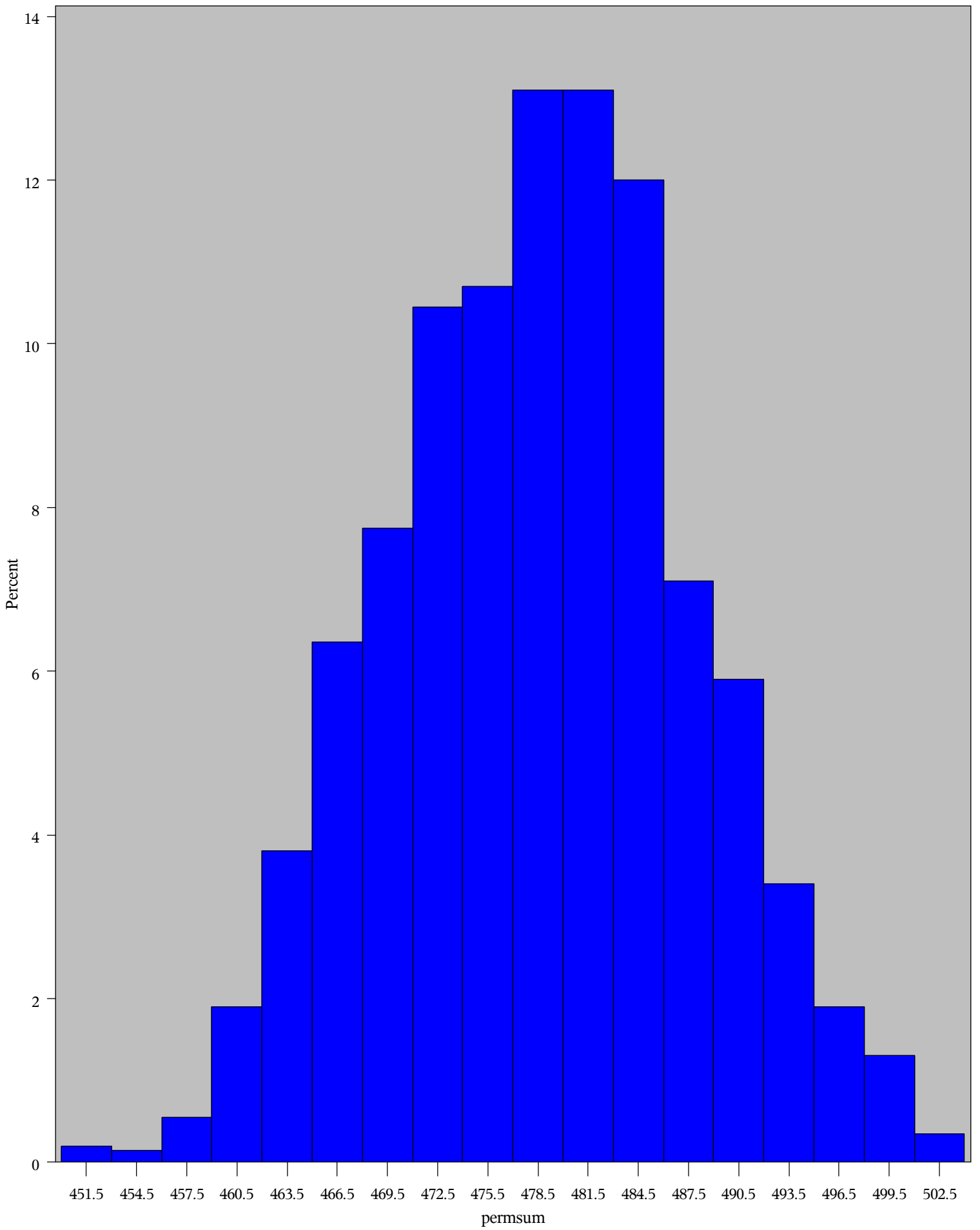
Variable: y

group	N	Mean	Std Dev	Std Err	Minimum	Maximum
1	8	62.5125	3.3617	1.1886	58.1000	67.8000
2	8	57.0875	3.5559	1.2572	52.1000	62.5000
Diff (1-2)		5.4250	3.4602	1.7301		

group	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
1		62.5125	59.7020	65.3230	3.3617	2.2227	6.8420
2		57.0875	54.1147	60.0603	3.5559	2.3510	7.2371
Diff (1-2)	Pooled	5.4250	1.7144	9.1356	3.4602	2.5333	5.4570
Diff (1-2)	Satterthwaite	5.4250	1.7133	9.1367			

Method	Variances	DF	t Value	Pr > t
Pooled	Equal	14	3.14	0.0073
Satterthwaite	Unequal	13.956	3.14	0.0073

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	7	7	1.12	0.8861



Permutation distribution results

approximate permutation p value = 0.005
with estimated error of +/- 0.0032

The NPARIWAY Procedure

Data Scores for Variable y Classified by Variable group					
group	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
2	8	456.70	478.40	8.722996	57.08750
1	8	500.10	478.40	8.722996	62.51250

Data Scores Two-Sample Test	
Statistic (S)	456.7000
Z	-2.4877
One-Sided Pr < Z	0.0064
Two-Sided Pr > Z	0.0129

Monte Carlo Estimates for the Exact Test	
One-Sided Pr ≤ S	
Estimate	0.0035
99% Lower Conf Limit	9.762E-05
99% Upper Conf Limit	0.0069
Two-Sided Pr ≥ S - Mean	
Estimate	0.0075
99% Lower Conf Limit	0.0025
99% Upper Conf Limit	0.0125
Number of Samples	2000
Initial Seed	12096001

Data Scores One-Way Analysis	
Chi-Square	6.1885
DF	1
Pr > Chi-Square	0.0129

Obs	group	y
1	2	52.1
2	2	54.6
3	2	55.0
4	1	58.1
5	2	58.7
6	1	59.1
7	2	59.3
8	2	60.1
9	1	60.3
10	1	61.3
11	2	62.5
12	1	63.4
13	1	65.0
14	1	65.1
15	1	67.8
16	2	154.4

The TTEST Procedure

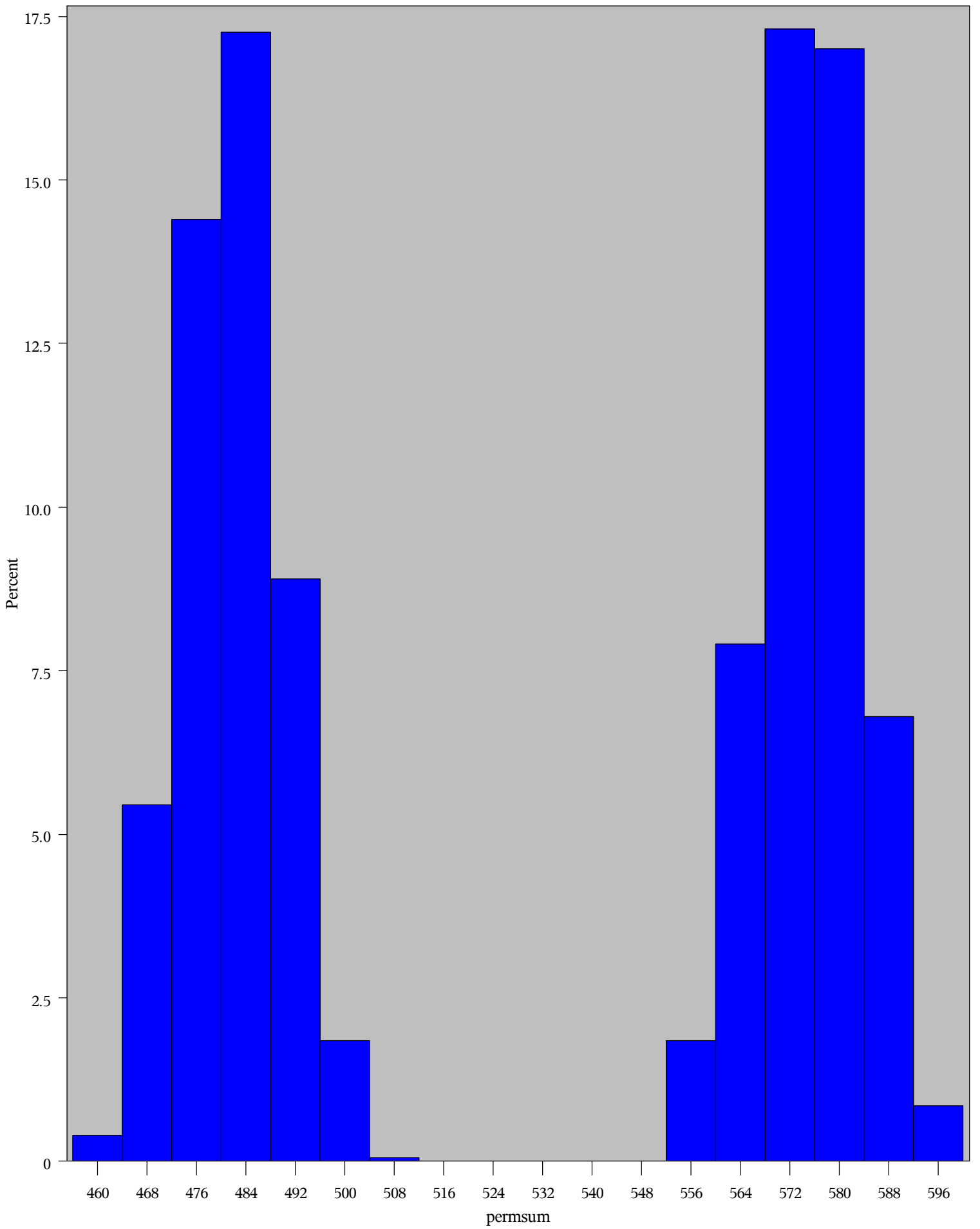
Variable: y

group	N	Mean	Std Dev	Std Err	Minimum	Maximum
1	8	62.5125	3.3617	1.1886	58.1000	67.8000
2	8	69.5875	34.4363	12.1751	52.1000	154.4
Diff (1-2)		-7.0750	24.4659	12.2329		

group	Method	Mean	95% CL Mean		Std Dev	95% CL Std Dev	
1		62.5125	59.7020	65.3230	3.3617	2.2227	6.8420
2		69.5875	40.7980	98.3770	34.4363	22.7684	70.0872
Diff (1-2)	Pooled	-7.0750	-33.3121	19.1621	24.4659	17.9121	38.5851
Diff (1-2)	Satterthwaite	-7.0750	-35.8920	21.7420			

Method	Variances	DF	t Value	Pr > t
Pooled	Equal	14	-0.58	0.5722
Satterthwaite	Unequal	7.1334	-0.58	0.5808

Equality of Variances				
Method	Num DF	Den DF	F Value	Pr > F
Folded F	7	7	104.93	<.0001



Permutation distribution results

approximate permutation p value = 0.5215
with estimated error of +/- 0.0223

The NPARIWAY Procedure

Wilcoxon Scores (Rank Sums) for Variable y Classified by Variable group					
group	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
2	8	53.0	68.0	9.521905	6.6250
1	8	83.0	68.0	9.521905	10.3750

Wilcoxon Two-Sample Test	
Statistic (S)	53.0000
Normal Approximation	
Z	-1.5228
One-Sided Pr < Z	0.0639
Two-Sided Pr > Z	0.1278
t Approximation	
One-Sided Pr < Z	0.0743
Two-Sided Pr > Z	0.1486
Z includes a continuity correction of 0.5.	

Monte Carlo Estimates for the Exact Test	
One-Sided Pr <= S	
Estimate	0.0685
99% Lower Conf Limit	0.0539
99% Upper Conf Limit	0.0831
Two-Sided Pr >= S - Mean	
Estimate	0.1310
99% Lower Conf Limit	0.1116
99% Upper Conf Limit	0.1504
Number of Samples	2000
Initial Seed	13127001

The NPAR1WAY Procedure

Kruskal-Wallis Test	
Chi-Square	2.4816
DF	1
Pr > Chi-Square	0.1152

The NPARIWAY Procedure

Data Scores for Variable y Classified by Variable group					
group	N	Sum of Scores	Expected Under H0	Std Dev Under H0	Mean Score
2	8	556.70	528.40	47.833991	69.58750
1	8	500.10	528.40	47.833991	62.51250

Data Scores Two-Sample Test	
Statistic (S)	556.7000
Z	0.5916
One-Sided Pr > Z	0.2770
Two-Sided Pr > Z	0.5541

Monte Carlo Estimates for the Exact Test	
One-Sided Pr >= S	
Estimate	0.5060
99% Lower Conf Limit	0.4772
99% Upper Conf Limit	0.5348
Two-Sided Pr >= S - Mean	
Estimate	0.9945
99% Lower Conf Limit	0.9902
99% Upper Conf Limit	0.9988
Number of Samples	2000
Initial Seed	1710016135

Data Scores One-Way Analysis	
Chi-Square	0.3500
DF	1
Pr > Chi-Square	0.5541