data eggs;

input num group$;

datalines;

4 1

5 1

6 1

7 1

7 1

9 1

5 2

5 2

6 2

7 2

7 2

8 2

10 2

;

proc npar1way data=eggs wilcoxon;

var num; class group; exact wilcoxon;

run;

| **Wilcoxon Scores (Rank Sums) for Variable num Classified by Variable group** | | | | | |
| --- | --- | --- | --- | --- | --- |
| **group** | **N** | **Sum of Scores** | **Expected Under H0** | **Std Dev Under H0** | **Mean Score** |
| **1** | 6 | 38.50 | 42.0 | 6.854252 | 6.416667 |
| **2** | 7 | 52.50 | 49.0 | 6.854252 | 7.500000 |
| **Average scores were used for ties.** | | | | | |

| **Wilcoxon Two-Sample Test** | |
| --- | --- |
| **Statistic (S)** | 38.5000 |
|  |  |
| **Normal Approximation** |  |
| **Z** | -0.4377 |
| **One-Sided Pr < Z** | 0.3308 |
| **Two-Sided Pr > |Z|** | 0.6616 |
|  |  |
| **t Approximation** |  |
| **One-Sided Pr < Z** | 0.3347 |
| **Two-Sided Pr > |Z|** | 0.6694 |
|  |  |
| **Exact Test** |  |
| **One-Sided Pr <= S** | 0.3275 |
| **Two-Sided Pr >= |S - Mean|** | 0.6439 |
| **Z includes a continuity correction of 0.5.** | |

| **Kruskal-Wallis Test** | |
| --- | --- |
| **Chi-Square** | 0.2607 |
| **DF** | 1 |
| **Pr > Chi-Square** | 0.6096 |

