# Hoofdstuk 19

*Bijlage 19.1*

| RANKS OF SAMPLE 1 | RANK SUM | RANKS OF SAMPLE 2 | RANK SUM |
|---|---|---|---|
| 1, 2, 3 | 6 | 4, 5, 6 | 15 |
| 1, 2, 4 | 7 | 3, 5, 6 | 14 |
| 1, 2, 5 | 8 | 3, 4, 6 | 13 |
| 1, 2, 6 | 9 | 3, 4, 5 | 12 |
| 1, 3, 4 | 8 | 2, 5, 6 | 13 |
| 1, 3, 5 | 9 | 2, 4, 6 | 12 |
| 1, 3, 6 | 10 | 2, 4, 5 | 11 |
| 1, 4, 5 | 10 | 2, 3, 6 | 11 |
| 1, 4, 6 | 11 | 2, 3, 5 | 10 |
| 1, 5, 6 | 12 | 2, 3, 4 | 9 |
| 2, 3, 4 | 9 | 1, 5, 6 | 12 |
| 2, 3, 5 | 10 | 1, 4, 6 | 11 |
| 2, 3, 6 | 11 | 1, 4, 5 | 10 |
| 2, 4, 5 | 11 | 1, 3, 6 | 10 |
| 2, 4, 6 | 12 | 1, 3, 5 | 9 |
| 2, 5, 6 | 13 | 1, 3, 4 | 8 |
| 3, 4, 5 | 12 | 1, 2, 6 | 9 |
| 3, 4, 6 | 13 | 1, 2, 5 | 8 |
| 3, 5, 6 | 14 | 1, 2, 4 | 7 |
| 4, 5, 6 | 15 | 1, 2, 3 | 6 |

*Bijlage 19.2*

**Test Statistic for Kruskal–Wallis Test**

$$H = \left[\frac{12}{n(n+1)}\sum_{j=1}^{k}\frac{T_j^2}{n_j}\right] - 3(n+1)$$

*Bijlage 19.3*

**Test Statistic for the Friedman Test**

$$F_r = \left[\frac{12}{b(k)(k+1)}\sum_{j=1}^{k}T_j^2\right] - 3b(k+1)$$

*Bijlage 19.4*

**Sample Spearman Rank Correlation Coefficient**

$$r_s = \frac{s_{ab}}{s_a s_b}$$

where $a$ and $b$ are the ranks of $x$ and $y$, respectively, $s_{ab}$ is the covariance of the values of $a$ and $b$, $s_a$ is the standard deviation of the values of $a$, and $s_b$ is the standard deviation of the values of $b$.

*Bijlage 19.5*

**Test Statistic for Testing $\rho_s = 0$ When $n > 30$**

$$z = \frac{r_s - 0}{1/\sqrt{n-1}} = r_s\sqrt{n-1}$$

which is standard normally distributed