# Tables in Appendix

**Table 1:** *Results Wilcoxon-Mann-Whitney Test comparison log data and think aloud data*

|  |  |
| --- | --- |
|  | *Z* |
| TECHNICAL\_ ORIENTATION | -3.35\*\*\* |
| CHECKING\_PLAN | 6.06\*\*\* |
| MONITORING\_ UNDERSTANDING\_MISTAKE | 4.20\*\*\* |
| CHECK\_ CONSTRUCTION | -0.74 |
| SEARCH\_SORT\_ MAKESPACE | 4.46\*\*\* |
| SEEKING\_HELP | 0.16 |
| CORRECT\_ MISTAKE | 7.39\*\*\* |
| CHANGE\_ STRATEGY | 3.74\*\*\* |

*Note.* Statistical comparison was done with the use of the Wilcoxon signed rank tests for pair-wise comparison (use Bonferroni correction); Legend:differences between total frequencies;

\* p < 0.05; \*\* p < 0.01; and \*\*\* p < 0.001

**Table 2:** *Means, standard deviations, and correlations with confidence intervals*

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Variable | *M* | *SD* | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 1. Technical Orientation (TAP) | 1.13 | 0.99 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 2. Checking Plan (TAP) | 3.06 | 2.97 | .18 [-.05, .39] |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 3. Monitoring Understanding and Mistakes (TAP) | 6.90 | 6.90 | .36\*\* [.15, .54] | .58\*\* [.41, .71] |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 4. Check Construction (TAP) | 0.66 | 0.99 | -.06 [-.28, .16] | .15 [-.07, .37] | .31\*\* [.09, .50] |  |  |  |  |  |  |  |  |  |  |  |  |
| 5. Search, Sort and Make Space (TAP) | 2.66 | 2.34 | .48\*\* [.29, .64] | .56\*\* [.38, .70] | .39\*\* [.18, .56] | -.03 [-.25, .20] |  |  |  |  |  |  |  |  |  |  |  |
| 6. Seeking Help (TAP) | 0.88 | 1.46 | .33\*\* [.11, .51] | .01 [-.21, .23] | .26\* [.04, .46] | .14 [-.09, .35] | .04 [-.19, .26] |  |  |  |  |  |  |  |  |  |  |
| 7. Correct Mistake (TAP) | 2.94 | 3.29 | .28\* [.07, .48] | .70\*\* [.57, .80] | .73\*\* [.60, .82] | .18 [-.04, .39] | .54\*\* [.36, .68] | -.02 [-.24, .21] |  |  |  |  |  |  |  |  |  |
| 8. Change Strategy (TAP) | 0.58 | 0.94 | .16 [-.07, .37] | .28\* [.06, .47] | .54\*\* [.36, .68] | .29\* [.07, .48] | .13 [-.10, .34] | .16 [-.07, .37] | .27\* [.05, .46] |  |  |  |  |  |  |  |  |
| 9. Technical Orientation (Log data) | 0.62 | 0.51 | .07 [-.16, .29] | -.09 [-.31, .14] | -.13 [-.35, .09] | -.12 [-.34, .10] | -.04 [-.26, .18] | -.06 [-.28, .17] | -.05 [-.27, .18] | -.06 [-.28, .17] |  |  |  |  |  |  |  |
| 10. Checking Plan (Log data) | 8.68 | 6.77 | .18 [-.05, .39] | .62\*\* [.45, .74] | .49\*\* [.30, .64] | .28\* [.06, .48] | .32\*\* [.10, .51] | .23\* [.01, .43] | .41\*\* [.20, .58] | .26\* [.04, .46] | -.24\* [-.44, -.02] |  |  |  |  |  |  |
| 11. Monitoring Understanding and Mistakes (Log data) | 15.64 | 16.04 | .24\* [.01, .44] | .41\*\* [.21, .58] | .62\*\* [.45, .74] | .21 [-.01, .42] | .18 [-.04, .39] | .37\*\* [.16, .55] | .36\*\* [.15, .54] | .53\*\* [.35, .67] | -.18 [-.39, .05] | .67\*\* [.53, .78] |  |  |  |  |  |
| 12. Check Construction (Log data) | 0.71 | 1.34 | .01 [-.22, .23] | .37\*\* [.16, .55] | .31\*\* [.09, .50] | .18 [-.04, .39] | .10 [-.13, .32] | .14 [-.09, .35] | .19 [-.04, .40] | .22 [-.01, .42] | -.29\*\* [-.48, -.07] | .68\*\* [.54, .79] | .40\*\* [.19, .57] |  |  |  |  |
| 13. Search, Sort and Make Space (Log data) | 5.77 | 5.07 | .16 [-.06, .37] | .30\*\* [.08, .49] | .47\*\* [.28, .63] | .22 [-.01, .42] | .25\* [.03, .45] | .13 [-.10, .34] | .33\*\* [.12, .52] | .44\*\* [.24, .61] | -.06 [-.28, .17] | .38\*\* [.18, .56] | .54\*\* [.37, .68] | .20 [-.03, .41] |  |  |  |
| 14. Seeking Help (Log data) | 0.60 | 0.80 | -.02 [-.24, .21] | -.03 [-.26, .19] | -.00 [-.22, .22] | -.02 [-.25, .20] | -.03 [-.25, .19] | .09 [-.13, .31] | -.04 [-.26, .19] | -.07 [-.29, .16] | -.60\*\* [-.73, -.43] | .17 [-.06, .38] | .14 [-.09, .35] | .15 [-.08, .36] | .16 [-.06, .37] |  |  |
| 15. Correct Mistakes (Log data) | 12.66 | 12.29 | .26\* [.04, .46] | .44\*\* [.24, .61] | .59\*\* [.43, .72] | .22 [-.01, .42] | .20 [-.03, .40] | .37\*\* [.16, .55] | .38\*\* [.17, .56] | .49\*\* [.30, .64] | -.16 [-.37, .07] | .69\*\* [.55, .79] | .99\*\* [.98, .99] | .40\*\* [.19, .57] | .47\*\* [.28, .63] | .11 [-.11, .33] |  |
| 16. Change Strategy (Log data) | 2.23 | 4.02 | .26\* [.04, .46] | .36\*\* [.14, .54] | .55\*\* [.37, .69] | .19 [-.03, .40] | .21 [-.02, .41] | .38\*\* [.17, .56] | .27\* [.05, .47] | .44\*\* [.24, .61] | -.24\* [-.44, -.01] | .58\*\* [.41, .71] | .87\*\* [.80, .92] | .34\*\* [.12, .52] | .33\*\* [.12, .52] | .09 [-.14, .31] | .84\*\* [.76, .90] |

*Note.* *M* and *SD* are used to represent mean and standard deviation, respectively. Values in square brackets indicate the 95% confidence interval for each correlation. The confidence interval is a plausible range of population correlations that could have caused the sample correlation (Cumming, 2014). \* indicates *p* < .05. \*\* indicates *p* < .01.

**Table 3**

*Descriptive Statistics*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **N** | **Female** | **Male** | **Missing** |
| Grade 2 | 13 | 6 | 4 | 3 |
| Grade 3 | 25 | 9 | 12 | 4 |
| Grade 4 | 14 | 5 | 9 | 0 |
| Grade 5 | 33 | 16 | 12 | 5 |
| Total  | 85 | 36 | 37 | 12 |