

Cognitive test data – summary variables

1. Reaction (Two-choice reaction time)

This test measured the time taken to select between a left or right response to match a left or right stimulus.

Summary variables:

RT_SCORE Count of correct responses

RT_MEAN Mean of elapsed times (including outliers)

RT_MEDIAN Median of elapsed times

RT_STDDEV Standard deviation of elapsed times.

The main one is RT_MEAN

2. Pairing (Paired associate learning – episodic memory)

This test requires the user to recall the positions of 7 hidden pictures.

Summary variables:

P7_TOT_ATTEMPTS Sum of attempts needed to find all seven pictures.

P7_TOT_ELAP Sum of all elapsed times

The main one is P7_TOT_ATTEMPTS

3. Quiz (Fluid intelligence)

This reasoning quiz presents multiple-choice questions, alternating between numerical and verbal problems.

Summary variables:

RQ_SCORE Number of correct answers

RQ_MAXTRIAL Last question answered

The main one is RQ_SCORE

4. Stroop (Mild interference/Stroop interference)

This test measured the effect on two-choice reaction time of increasing choice complexity.

Summary variables:

For the coloured box test:

STB_SCORE Count of correct responses

STB_MEAN Mean of elapsed times (including outliers)

STB_MEDIAN Median of elapsed times

STB_STDDEV Standard deviation of elapsed times.

For the “ink” Stroop test:

STI_SCORE Count of correct responses

STI_MEAN Mean of elapsed times (including outliers)

STI_MEDIAN Median of elapsed times

STI_STDDEV Standard deviation of elapsed times.

The main one will be the difference between STB_MEAN and STI_MEAN

5. Number (Working Memory Test - Forward digit span)

This test measures the number of digits which can be recalled by the participant, beginning with a single digit and increasing the length of digit strings presented until the participant cannot recall a string of a particular length in two attempts.

Summary variables:

WM_SCORE Maximum digits recalled