Rust Advanced Numerical Reasoning Appraisal
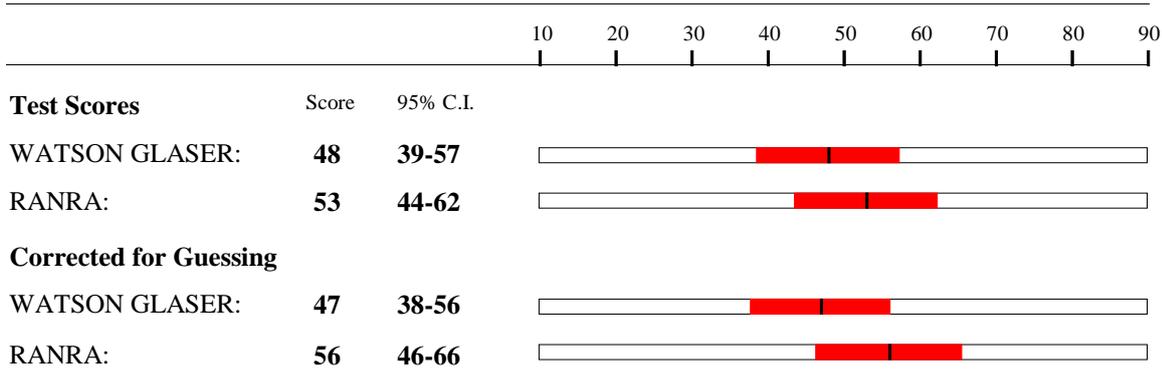
Technical Report for John Sample

The Psychological Corporation

Both Watson-Glaser and RANRA administered on 07/10/2001

The test scores and comparison group scores shown below represent transformed scores as in Appendices A and B of the RANRA and/or Watson-Glaser Manuals, with the respondent's scores in bold.

	Score	95% C.I.	10	20	30	40	50	60	70	80	90
Test Scores											
WATSON GLASER:	**48**	**39-57**									
RANRA:	**53**	**44-62**									
Corrected for Guessing											
WATSON GLASER:	**47**	**38-56**									
RANRA:	**56**	**46-66**									

Comparison Group: UK standardisation sample   **Sample size:** 1546

The respondent's percentile scores are presented in relation to this comparison group.

Comparison Group Norms	Mean	Standard Deviation	Percentile score
WATSON GLASER:	50	10.00	**42**
RANRA:	50	10.00	**62**
WATSON GLASER Corrected for Guessing:	50	10.00	**38**
RANRA Corrected for Guessing:	50	10.00	**73**

RAW SCORES ON INDIVIDUAL SUB-TESTS

	Number of items attempted (of 16)	Number of items answered correctly
Sub-tests of the Watson-Glaser		
Test 1: Inference	**16**	**9**
Test 2: Recognition of Assumptions	**16**	**12**
Test 3: Deduction	**16**	**9**
Test 4: Interpretation	**16**	**13**
Test 5: Evaluation of Arguments	**16**	**12**
Sub-tests of RANRA		
Test 1: Comparison of Quantities	**13**	**7**
Test 2: Sufficency of Data	**11**	**10**

The Watson-Glaser Critical Thinking Appraisal assesses your critical reasoning skills. Critical reasoning involves the ability to define a problem, to select pertinent information for its solution, and to formulate and select relevant and promising hypotheses. It further involves the ability to recognise stated and unstated assumptions in statements made by others and to judge the validity of inferences made and conclusions drawn. Your score on the Watson-Glaser was 48. In comparison with the UK standardisation sample this score is at the 42nd percentile. This means that you obtained a higher score than 42% of the 1546 respondents in the UK standardisation sample.

The Rust Advanced Numerical Reasoning Appraisal (RANRA) assesses your skills in numerical reasoning. Reasoning numerically involves the ability to recognize, understand, generalise and apply the sequential and logical operations inherent in mathematical training. Many individuals, once they complete their formal education, fail to advance these skills or to incorporate the underlying logic into their working lives. Your score on RANRA was 53. In comparison with the UK standardisation sample this score is at the 62nd percentile. This means that you obtained a higher score than 62% of the 1546 respondents in the UK standardisation sample.

The Watson-Glaser contains five tests. Test 1 assessed your ability to judge the validity of inferences that have been made by others. For this test you answered 9 of the 16 questions correctly. About 66% of those taking this test are likely to obtain a score at this level or higher.

Test 2 assessed your ability to recognize presuppositions and assumptions that are implicit in statements made by others. For this test you answered 12 of the 16 questions correctly. About 72% of those taking this test are likely to obtain a score at this level or higher.

Test 3 assessed your ability to recognize whether particular conclusions necessarily follow from the evidence given by particular statements and premises. For this test you answered 9 of the 16 questions correctly. About 82% of those taking this test are likely to obtain a score at this level or higher.

Test 4 assessed your ability to weigh evidence and decide if generalisations or conclusions based on given evidence are actually warranted. For this test you answered 13 of the 16 questions correctly. About 59% of those taking this test are likely to obtain a score at this level or higher.

Test 5 assessed your ability to distinguish between arguments that are strong and relevant and those that are weak and irrelevant to a particular question at issue. For this test you answered 12 of the 16 questions correctly. About 52% of those taking this test are likely to obtain a score at this level or higher.

RANRA contains two tests. Test 1 assessed your ability to intuitively recognise issues that need to be addressed in obtaining a solution to a mathematical problem. For this test you answered 7 of the 16 questions correctly. About 62% of those taking this test are likely to obtain a score at this level or higher.

Test 2 of RANRA assessed your ability to recognise the inter-relatedness between items of numerical information and to identify those that are relevant to problem-solving. For this test you answered 10 of the 16 questions correctly. About 35% of those taking this test are likely to obtain a score at this level or higher.

Critical thinking with both language and numbers is the basis of sound judgement, and is an essential prerequisite for success in most forms of professional employment today. A good education will help, but is not sufficient in itself for critical thinking success. Of equal importance are training, practice and continued application of the skills involved.