

January 2019

Development Rationale

MindmetriQ
Gamified
Assessments

Gamified assessments and 'g'

Gamified assessments have a lot of potential, **if** they're done scientifically. Which is what we've done.

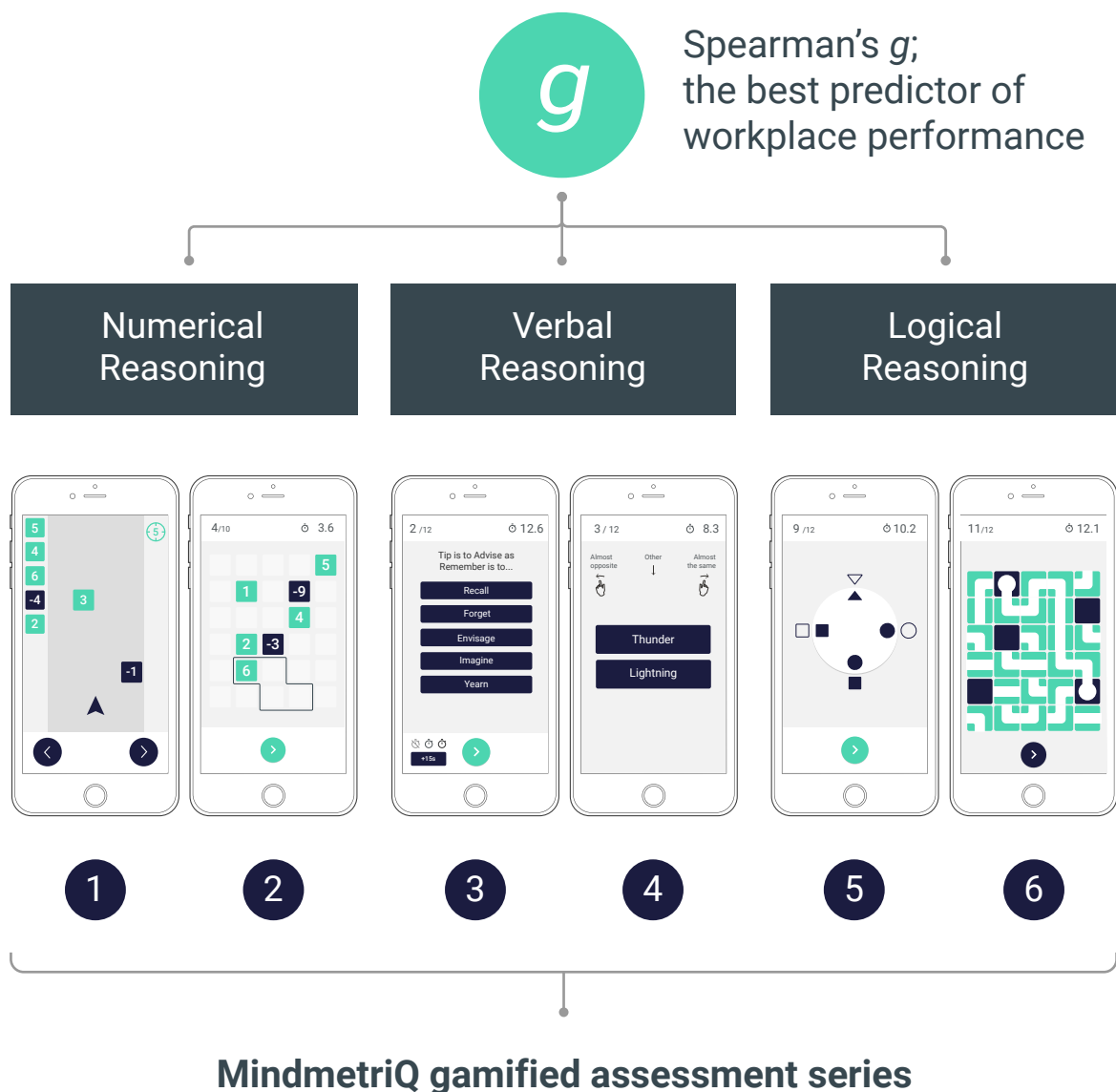
We've used advanced psychometric methods and calibration data from tens of thousands of test completions to bring proven science to gamified assessments.

Extensive research finds that general cognitive ability (sometimes referred to as 'g') is the best predictor of job performance (Schmidt & Hunter, 1998). So guess what we developed our gamified assessments to measure...yes they all measure *g*!

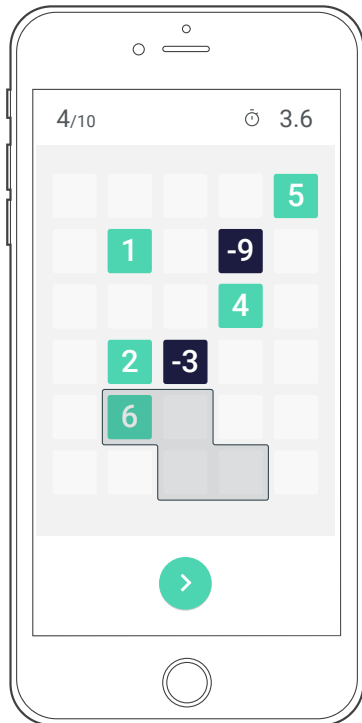


Schmidt, F. L., & Hunter, J. E. (1998). The validity and utility of selection methods in personnel psychology: Practical and theoretical implications of 85 years of research findings. *Psychological Bulletin*, 124(2), 262

Each one of our six assessments on its own has comparable validity and reliability to a traditional ability test (e.g. numerical or verbal reasoning test). So combine the six gamified assessments and the predictive power is significant.



Numerical reasoning factor



1 Net the Numbers

Measures: Numerical reasoning.

Task: Candidates must drag the highlighted net over the numbers which when summed give the largest possible answer. Remember the highest number may be negative.

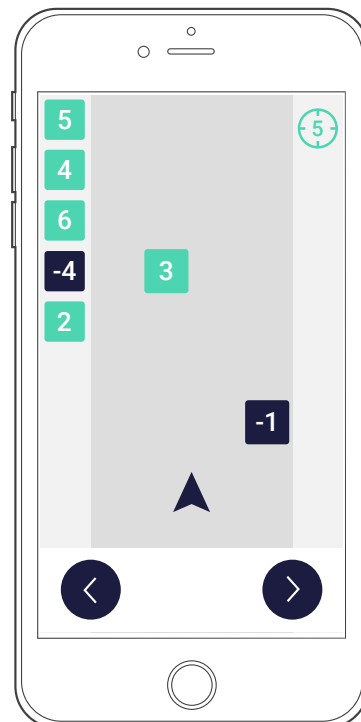
g facets: quantitative reasoning, working memory capacity, visual processing.

2 Number Racer

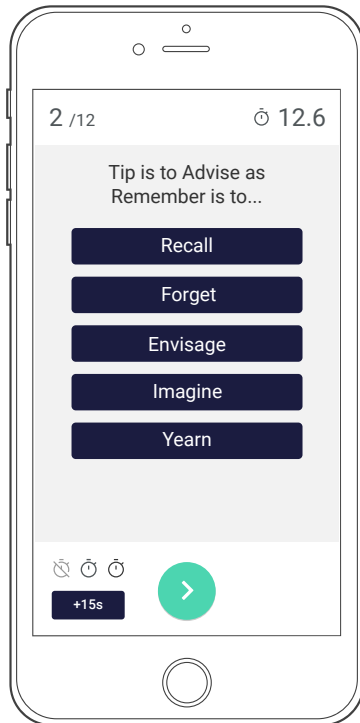
Measures: Numerical reasoning.

Task: Candidates must check which numbers are falling and collect those which sum to the target number. Be careful to avoid the other falling numbers.

g facets: quantitative reasoning, perceptual speed, memory span.



Verbal reasoning factor



3 Word Logic

Measures: Verbal reasoning.

Task: Candidates are asked to complete verbal analogies by tapping the best option.

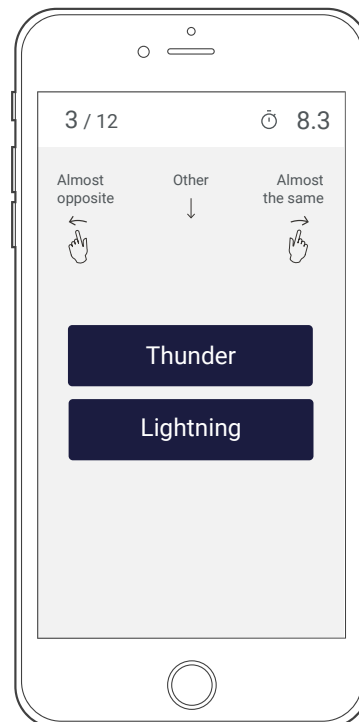
g facets: reading decoding, processing verbal information, cloze reasoning (missing information).

4 Link Swipe

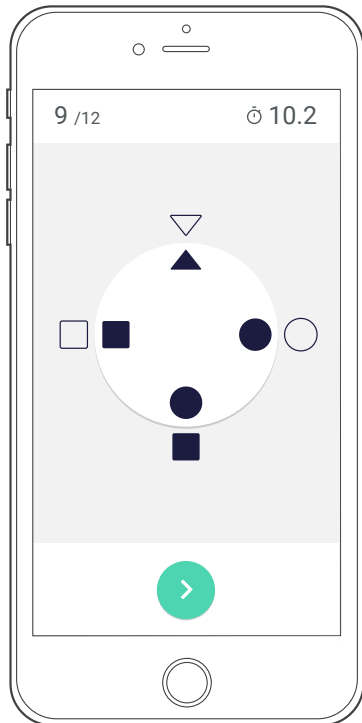
Measures: Verbal reasoning.

Task: Candidates are presented with a pair of words and asked to decide whether they are synonyms, antonyms, or neither.

g facets: lexical knowledge, processing verbal information, grammatical sensitivity.



Logical reasoning factor



5 Shape Spinner

Measures: Logical reasoning.

Task: Candidates spin the wheel so that each symbol is next to one of the same shape **or** the same shading, but not both. Make sure you check every symbol.

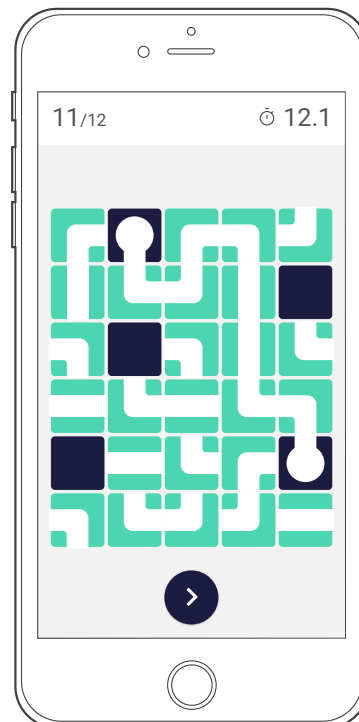
g facets: speeded rotation, visualization, serial perceptual integration.

6 Pipe Puzzle

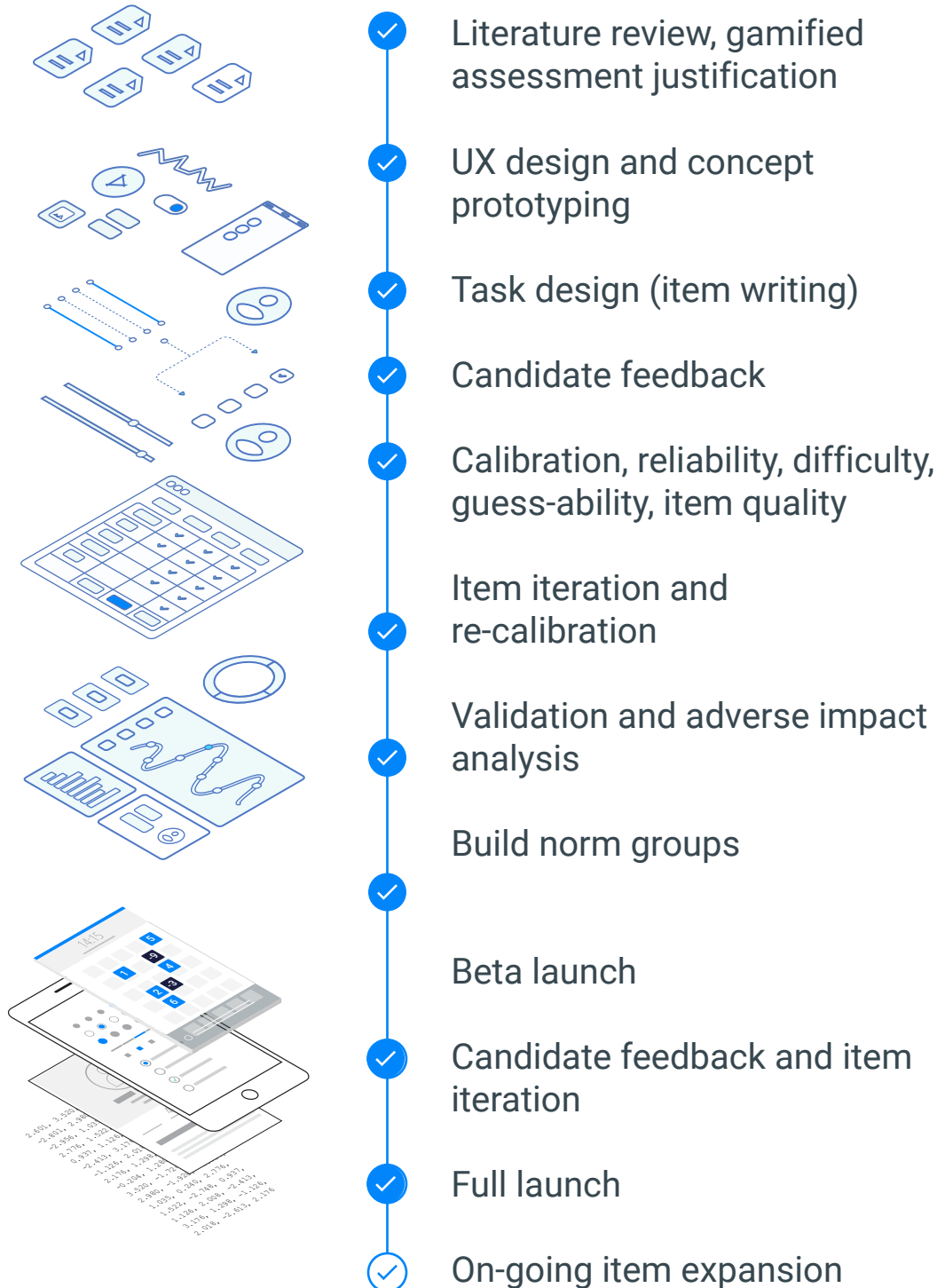
Measures: Logical reasoning.

Task: Candidates must re-arrange the pipes to connect the two end points. Avoid the solid obstacles and make sure you have enough pipes.

g facets: spatial scanning, visual memory, flexibility of closure.



Development process



Want to know more?

Please get in touch to find out more.

With advanced technology and robust science, candidate selection is changing for the better. And we're inviting you to be part of this progress.

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