Application
Measures the level and structure of the intelligence in accordance with the Cattell-Horn-Carroll (CHC) model, on the basis of six ability factors (fluid intelligence, crystallized intelligence, quantitative thinking, short-term memory, visual processing and long-term memory). This modular test provides both a quick global overview of intelligence level and a nuanced and detailed assessment. It is used in decision-oriented psychological assessment, enabling specific issues to be clarified accurately and economically. It is used in manufacturing & safety assessments and academic testing.

Task
Depending on the subtest, the respondent’s answers are given either in multiple-choice format or as automated free responses. The six ability factors are assessed by the following subtests:

> Fluid intelligence:
  > Numerical inductive reasoning: Identifying the rules on which a number sequence is based and using them to continue the sequence.
  > Figural inductive reasoning: The ninth field of a 3x3 matrix of symbols must be filled with one of eight possible symbols in accordance with the underlying rules.
  > Verbal deductive reasoning: Two statements must be logically combined and a conclusion drawn from them.

> Crystallized intelligence:
  > General knowledge: The respondent completes definitions in a cloze text.
  > Verbal fluency: An unordered series of letters must be turned into a meaningful noun.
  > Word meaning: A synonym for a given word must be selected. The test uses a multiple-choice format.

> Short-term memory:
  > Visual short-term memory: Orientation points are marked on a street map. The respondent must memorize the points and reproduce them.

> Verbal short-term memory: The respondent memorizes the names and the order of bus stops and recognizes them.

> Long-term memory:
  > Long-term memory: This subtest consists of a memorizing phase, an intermediate phase and a test phase; it involves remembering information about fictitious people.

> Visual processing:
  > Spatial perception: A test cube is shown. The respondent states whether one of six comparison cubes represents the given test cube from a different perspective.

> Quantitative thinking:
  > Computational estimation: A calculation is shown. The respondent states which of four answers is closest to the correct answer.
  > Arithmetical competence: The respondent must perform a computational task in his/her head.
  > Arithmetical flexibility: A given equation must be solved by inserting the correct arithmetical operations.
  > Algebraic reasoning: The respondent solves text calculation tasks.

Test forms
S2: Variable form II – modular
S3: Global form - test battery with fixed test sequence

Analysis
The following main variables are scored:
> General intelligence: Global assessment of intellectual capacity.
> Fluid intelligence: Measure of the ability to identify relationships between stimuli, understand implications and draw valid logical conclusions using a variety of item material.
> Crystallized intelligence: Measure of the breadth and depth of acquired cultural knowledge, verbal fluency and word comprehension.
> Quantitative thinking: The ability to understand and apply...
mathematical skills and concepts for problem-solving purposes.

> Short-term memory: Measure of the ability to retain visual and verbal information in the short term and to reproduce it accurately.

> Long-term memory: Measure of the ability to retain information in the longer term, integrate it into one’s own knowledge base and recall it accurately.

> Visual processing: Measure of the ability to picture objects in three-dimensional space and if necessary rotate them in one’s mind.

**Duration**  
between 3 and max. 40 minutes per subtest  
For S2 (fixed sequence of subtests) the time required is approx. 2 hours and 52 minutes.

**Valid age**  
Norms for ages 12+.

**Special feature**  
Modular administration possible (S1). Predominantly adaptive test presentation.

**Report elements**

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