# OUTLINE

#### **CHAPTER 9**

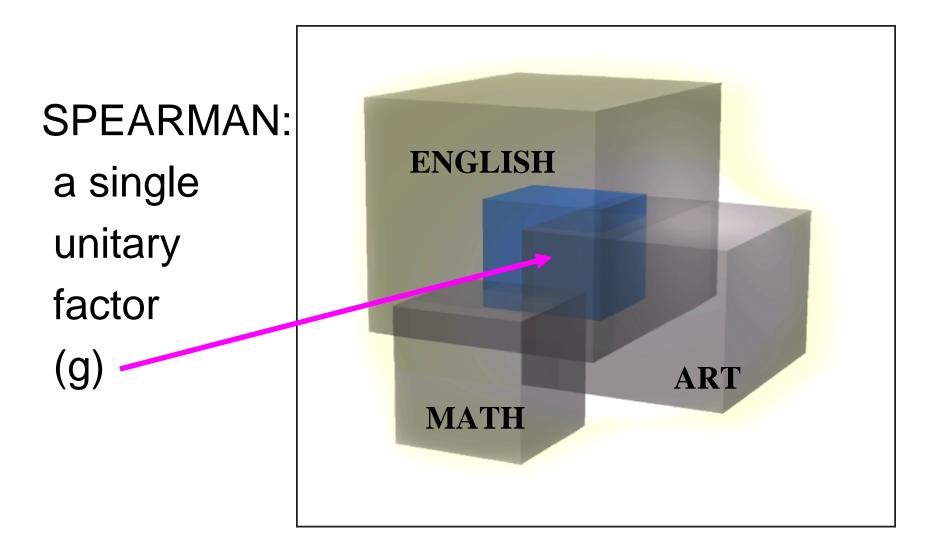
#### **INTELLIGENT THOUGHT & BEHAVIOR**

- REASONING
  - Deductive logic
  - Inductive logic
- DEFINING INTELLIGENCE
- MEASURING INTELLIGENCE
- THE NATURE OF INTELLIGENCE

~Professor Fazakas-DeHoog

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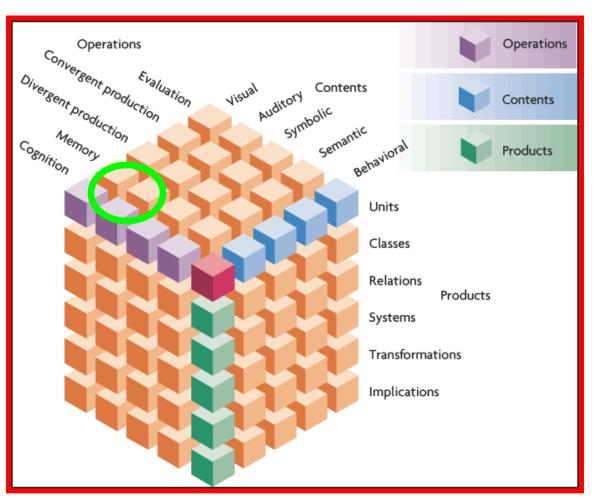
## THEORIES OF INTELLIGENCE



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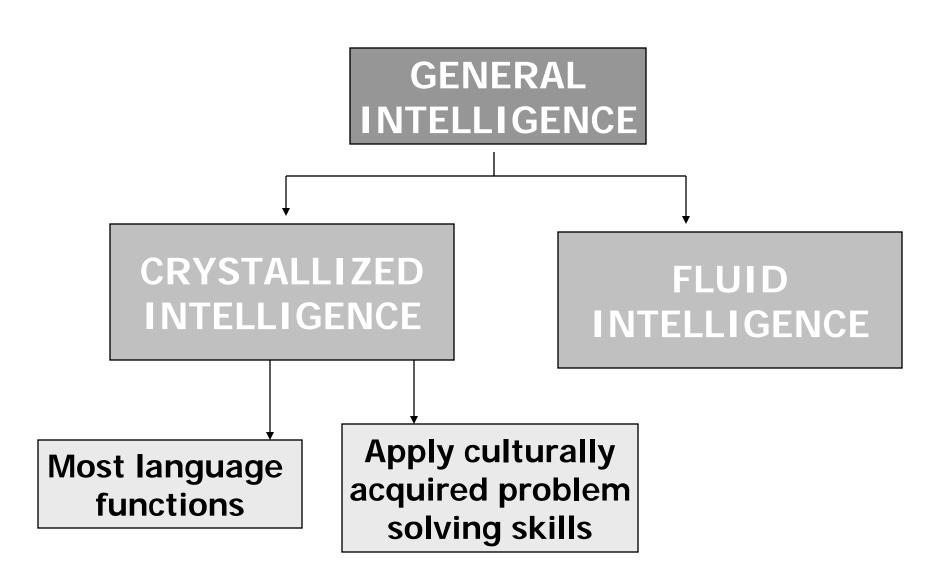
## THEORIES OF INTELLIGENCE

GULIFORD more than 100 distinct measurable mental abilities.



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#### THEORIES OF INTELLIGENCE



# Measuring Intelligence

Wechlser (WAIS-R, WISC)

#### **VERBAL SCALES -**

SUBTEST INDICATOR OF

Vocabulary
Similarities
Arithmetic
Digit Span
information
Comprehension

(language mastery)
(Relational patterns)
(symbols/abstract reasoning)
(Short term/working memory)
(Past learning)
(practical/applied knowledge)

### *Measuring Intelligence* Wechlser (WAIS-R, WISC)

PERFORMANCE SCALES - Perceptual processing & perceptual organization

SUBTEST

INDICATOR OF

Picture Completion
 Block Design
 Matrix Reasoning
 Symbol Search
 Object Assembly
 Digit-Symbol Coding

(visual processing)
(whole/part)
(patterns/relationships)
(processing speed)
(all of above)

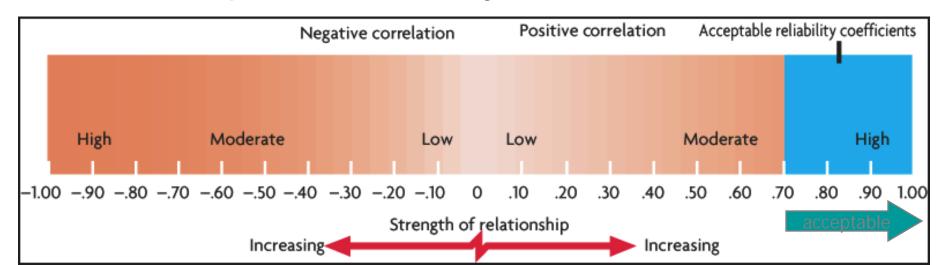
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#### MEASUREMENT ISSUES

A good test must be reliable and valid

# **RELIABILITY** refers to consistency of measurement

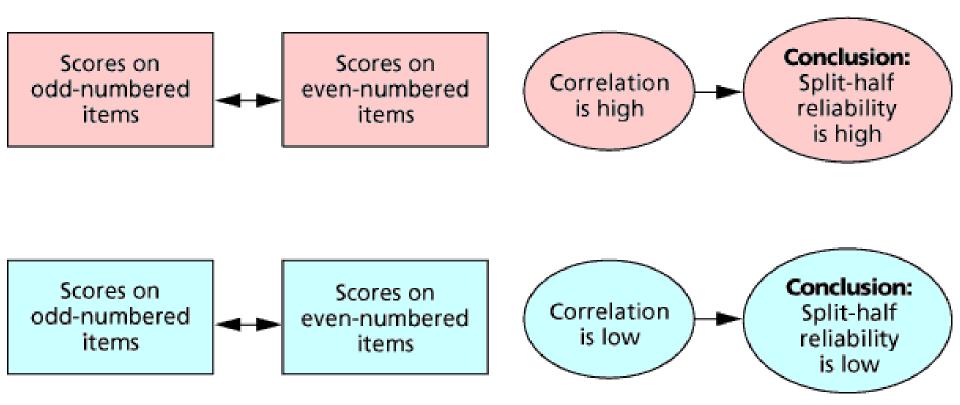
**Test-retest:** same group takes the test twice **Split-half:** divide the test into halves and then compare consistency of scores on the halves



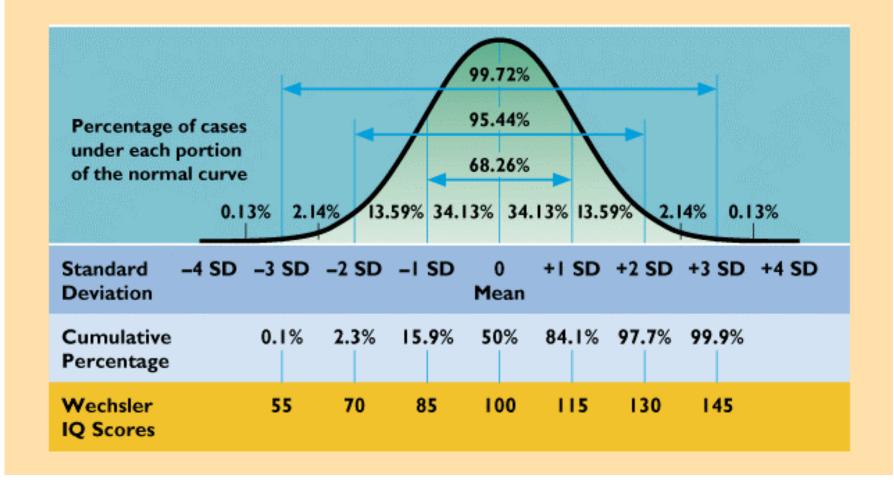
#### **Reliability:**

#### **A Basic Requirement of Psychological Tests**

A. Split-Half Reliability



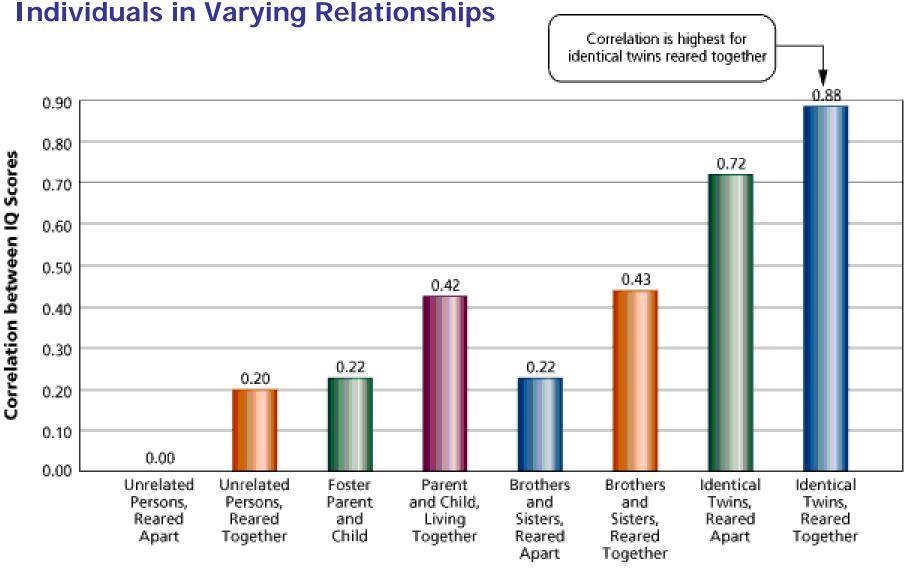
### **Test Norms: The Normal Curve**



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#### **Correlations Between IQ Scores of**



Relationship

Source: Based on data from Bouchard & McGue, 1981; and Erlenmeyer-Kimling & Jarvis, 1963.