

1. Intellectual Development: Psychometrics



# Intellectual Development: Psychometrics

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David Henry Feldman, PhD  
Tufts University  
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2. Psychometrics



# Psychometrics

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*Intelligence:  
Psychometric Theory's Premier  
Achievement*

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3. Some Prominent Psychometricians



## Some Prominent Psychometricians

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- J.P. Guilford (#27)
- Arthur R. Jensen (#47)
- Robert J. Sternberg (#60)
- Lewis M. Terman (#72.5)
- L.L. Thurstone (#88.5)

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4. Psychometrics



## Psychometrics

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- The Bell Curve
- The bell curve
- IQ: A Technological Tour de Force
- Stanford-Binet, Wechsler IQ tests
- General vs. Specific IQ tests
- Psychometric BEST
- Applications: Eugenics, Culture Fair testing

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5.

## Strengths of Psychometrics



### Strengths of Psychometrics

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- Efficient
- Easy to understand
- Effective in practice
- Precise
- Sophisticated
- Seemingly fair, unbiased

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6.

## Assumptions about IQ



### Assumptions about IQ

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- Innate, biologically determined
- Inherited, genetic
- Unchanging, unchangeable
- A single quantity (g)

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7.

## Psychometric Perspective



### Psychometric Perspective

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- Meritocratic
- Test technology (paper & pencil tests)
- "Scientific" (e.g., correlation, factor analysis)
- Moral/value overtones (e.g., eugenics)

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8.

## BEST for Psychometric Theory



### BEST for Psychometric Theory

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- **B**: The intellectual potential of the child is fixed at conception, a function of the genetic material of the two parents. That potential can be described as "g" or general intelligence.
- **E**: Precisely the same as B
- **S**: None necessary since there is no change
- **I**: No need for these since there are no stages

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## 9. Psychometrics Terms, Names, and Concepts



### Some terms, names, & concepts to know about Psychometrics

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- Ascriptive vs. meritocratic systems of selection
- Correlation
- Validity
- Reliability
- Factor analysis
- Stanford-Binet IQ test
- Lewis Terman
- Charles Spearman
- Arthur Jensen
- J.P. Guilford
- Primary mental abilities
- Bell Curve / Normal Curve
- IQ=SAT=GRE=MCAT=LSAT =etc.
- "g" versus "s"
- Wechsler scales
- Eugenics & sterilization programs

***You should be able to define each of the above and provide a statement of its significance within the context of our course. There will be several items from this list on the Quiz.***

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## 10. Video



### Video

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### "Secrets of the SAT's"

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