




PEARSON 



Administration, Scoring and Basic Interpretation

Gloria Maccow, Ph.D.
Assessment Training Consultant

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved.



Overview

- ♦ Introduction
- ♦ Test Structure
- ♦ Administration and Scoring
- ♦ Basic Interpretation


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 2



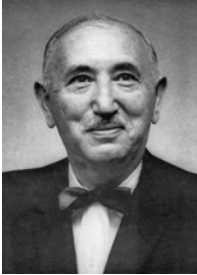
WAIS-IV Kit - Materials




Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 3

 **David Wechsler 1896-1981**

- Author of the WAIS, WISC, WPPSI, WMS
- Adapted tasks from existing tests (e.g., Army Alpha & Army Beta; Koh's Blocks) and incorporated them into scale
- Verbal IQ, Performance IQ, Full Scale IQ
- First to employ Deviation IQ
- A master clinician who often gave non-standardized intelligence tests




Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 4

 **Wechsler's Definition of Intelligence**

"Intelligence is the aggregate or global capacity of the individual to act purposefully, to think rationally, and to deal effectively with his environment."

Wechsler, D. (1939). *The measurement of adult intelligence*. Baltimore: Williams & Wilkins, p. 229.

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 5

 **WAIS-IV Content and Structure**
Ages 16 - 90

Verbal Comprehension Scale

Core Subtests
Information
Similarities
Vocabulary

Supplemental Subtests
Comprehension

Perceptual Reasoning Scale

Core Subtests
Block Design
Matrix Reasoning
Visual Puzzles *New!*

Supplemental Subtests
Picture Completion
Figure Weights (16-69) *New!*

Working Memory Scale

Core Subtests
Arithmetic
Digit Span

Supplemental Subtests
Letter-Number Sequencing (16-69)

Processing Speed Scale

Core Subtests
Coding
Symbol Search

Supplemental Subtests
Cancellation (16-69) *New!*

FSIQ

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 6



Introducing the WAIS-IV

"I'll be asking you to do a number of things today. Some of the things may be really easy for you, but some may be hard. Most people do not answer every question correctly or finish every item, but please try your best. Do you have any questions?"

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 7



Subtests - Administration Order (See Record Form)

- | | |
|---------------------|------------------------------|
| 1. Block Design | 11. Letter-Number Sequencing |
| 2. Similarities | 12. Figure Weights |
| 3. Digit Span | 13. Comprehension |
| 4. Matrix Reasoning | 14. Cancellation |
| 5. Vocabulary | 15. Picture Completion |
| 6. Arithmetic | |
| 7. Symbol Search | |
| 8. Visual Puzzles | |
| 9. Information | |
| 10. Coding | |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 8



Subtest Substitution


- Only ONE substitution is allowed for each index score
- NO MORE THAN TWO SUBSTITUTIONS ARE ALLOWED WHEN DERIVING THE FSIQ AND GAI
- Substitution introduces error but is preferable to prorating scores

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 9

 **Prorating**


- Examiner uses prorating to derive a composite score when all needed subtest scores are not available
- A prorated sum of scaled scores from two core subtests can be used to derive the VCI and PRI
- A prorated sum of scaled scores is NOT available for deriving the WMI or PSI


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 10


 **Prorating - Tables**


Pages 226-228
Administration and
Scoring Manual

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 11


 **Administration Guidelines**

Start Points  Start

Reverse Rules  Reverse

Discontinue Rule  Discontinue


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 12



Administration Guidelines

| | |
|---------------------|--------------------------------|
| Demonstration | Examiner explains task |
| Sample Items | Examinee practices |
| Teaching Items † | Teach if needed and prescribed |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 13



Administration Guidelines

- ◆ Queries - for responses that are marginal, generalized, functional, made with hand gestures
- ◆ Prompts
- ◆ Repetition


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 14



Recording Responses

| Symbol | Use |
|--------|--------------------------------------|
| Q | Administered query |
| P | Administered prompt |
| R | Repeated item |
| DK | Examinee indicated s/he did not know |
| NR | Examinee did not respond |

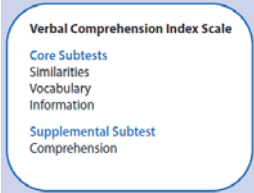
Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 15



Verbal Comprehension Index Subtests

Measure


- verbal concept formation
- verbal reasoning
- Knowledge acquired from one's environment



Verbal Comprehension Index Scale

- Core Subtests
 - Similarities
 - Vocabulary
 - Information
- Supplemental Subtest
 - Comprehension


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 16



Similarities

| Subtest | Description |
|--------------|---|
| Similarities | Examinee is presented two words that represent common objects or concepts and describes how they are similar. Measures verbal concept formation and reasoning. |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 17



Similarities - 12 new items

Now I am going to say two words and ask you how they are alike. How are . . . and . . . alike? How are they the same?


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 18



Vocabulary

| Subtest | Description |
|------------|--|
| Vocabulary | For picture items, the examinee names the object presented visually. For verbal items, examinee defines words presented visually and orally. Measures word knowledge and verbal concept formation. |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 19




Vocabulary - 9 new items

Picture Items: "What is this?"

Verbal Items: "I am going to say some words. Listen carefully and tell me what each word means."


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 20



Information

| Subtest | Description |
|-------------|--|
| Information | Examinee answers questions that address a broad range of general knowledge topics. Measures ability to acquire, retain, and retrieve general factual knowledge. |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 21



Information - 11 new items

See Administration Manual.
Read each item verbatim.


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 22



Comprehension

| Subtest | Description |
|---------------|--|
| Comprehension | Examinee answers questions based on his/her understanding of general principles and social situations. Measures verbal reasoning and conceptualization, verbal comprehension and expression, ability to evaluate and use past experience, ability to demonstrate practical knowledge and judgment. |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 23



Comprehension - 11 new items

See Administration Manual.
Read each item verbatim.

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 24

 **Perceptual Reasoning Index Subtests**

Measure


- Perceptual and fluid reasoning
- Spatial processing
- Visual-motor integration

Perceptual Reasoning Index Scale

Core Subtests
Block Design
Matrix Reasoning
Visual Puzzles

Supplemental Subtests
Figure Weights (16-69 only)
Picture Completion


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 25

 **Changes to Perceptual Reasoning Subtests**

Block Design

- Used Model and Stimulus Book for all teaching items
- Added 4-block diamond items before 9-block items
- Reduced # of items with time bonus
- Added BDN (No Time Bonus) process score

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 26

 **Changes to Perceptual Reasoning Subtests**


Matrix Reasoning

- Retained 2 of 4 item-types (2x2 matrix items and series completion items)
- Added sample item for each type
- Clarified 30-second guideline

Picture Completion


- Enlarged visual stimuli
- Added ceiling items

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 27

 **Perceptual Reasoning Subtests**


| Subtest | Description |
|--------------|--|
| Block Design | Working within a specified time limit, the examinee views a model and a picture, or a picture only and uses red-and-white blocks to re-create the design. Measures the ability to analyze and synthesize abstract visual stimuli. |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 28

 **Perceptual Reasoning Subtests**


| Subtest | Description |
|------------------|---|
| Matrix Reasoning | The examinee views an incomplete matrix or series and selects the response option that completes the matrix or series. Involves fluid intelligence, broad visual intelligence, classification and spatial ability, knowledge of part-whole relationships, simultaneous processing, and perceptual organization |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 29

 **Perceptual Reasoning Subtests**

| Subtest | Description |
|----------------|--|
| Visual Puzzles | Working within a specified time limit, the examinee views a completed puzzle and selects three response options that, when combined, reconstruct the puzzle. |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 30



Perceptual Reasoning Subtests

| Subtest | Description |
|----------------|---|
| Visual Puzzles | Involves visual perception and organization, nonverbal reasoning, spatial visualization and manipulation, the ability to anticipate relationships among parts, including the ability to analyze and synthesize abstract visual stimuli. |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 31



Administration of Visual Puzzles (VP)

- ◆ Examinee must pick exactly 3 responses
- ◆ **Demonstration Item:** demonstrates task and teaches examinee not to stack pieces to get the answer and to choose exactly 3 responses
- ◆ **Sample Item:** practice for examinee, and teaches examinee that pieces may need to be turned to make them fit
- ◆ Items have either 20 or 30 second time limit
- ◆ Examinees receive a 10-second warning before time limit expires


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 32



Perceptual Reasoning Subtests


| Subtest | Description |
|----------------|---|
| Figure Weights | Working within a specified time limit, the examinee views a scale with missing weight(s) and selects the response option that keeps the scale balanced. Assesses quantitative reasoning and analogical reasoning. Involves inductive and deductive logic. Requires working memory. |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 33

 **Administration of Figure Weights**


- ♦ Items have either 20- or 40-second time limit.
- ♦ Examinees receive a 10-second warning before time limit expires.
- ♦ Remember to give prompt when moving to items with 3 scales.

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 34

 **Perceptual Reasoning Subtests**

| Subtest | Description |
|--------------------|--|
| Picture Completion | Working within a specified time limit, the examinee views a picture with an important part missing and identifies the missing part. Measures visual perception and organization, concentration, visual recognition of essential details of objects. |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 35

 **Working Memory Index - Subtests**

Measure


- attention
- concentration
- mental control
- reasoning

Working Memory Index Scale

Core Subtests
Digit Span
Arithmetic

Supplemental Subtest
Letter-Number Sequencing (16-69 only)


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 36

 **Changes to Working Memory Subtests**

Digit Span


- Added new sequencing task
- Eliminated rhyming numbers

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 37

 **Working Memory Subtests**

| Subtest | Description |
|------------|---|
| Digit Span | DSF: examiner reads a sequence of numbers; examinee recalls the numbers in the same order. |
| | DSB: examiner reads a sequence of numbers; examinee recalls the numbers in reverse order. |
| | DSS: examiner reads a sequence of numbers; examinee recalls the numbers in ascending order. |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 38

 **Why the changes in Digit Span (DS)?**

- ♦ The shift from one Digit Span task to another requires cognitive flexibility and mental alertness.
- ♦ *Digit Span Forward* involves rote learning and memory, attention, encoding, and auditory processing.
- ♦ *Digit Span Backward* involves working memory, transformation of information, mental manipulation, and visuospatial imaging.
- ♦ *Digit Span Sequencing* is similar to other tasks that are designed to measure working memory and mental manipulation.

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 39



Changes to Working Memory Subtests

Arithmetic

- Omitted reference to English measurement system and currency
- Decreased emphasis on mathematical skills and increased emphasis on working memory

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 40



Working Memory Subtests

| Subtest | Description |
|------------|---|
| Arithmetic | Working within a specified time limit, the examinee mentally solves a series of arithmetic problems. Measures mental manipulation, concentration, attention, short- and long-term memory, numerical reasoning ability, and mental alertness. |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 41




Arithmetic

Introduction

“Now I am going to read you some problems. Listen carefully, you can only ask me to read each problem *one* more time.”

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 42




Changes to Working Memory Subtests

Letter-Number Sequencing

- Eliminated rhyming numbers and letters
- Omitted use of L, I, O, and zero
- Implemented graduated teaching strategy


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 43



Working Memory Subtests

| Subtest | Description |
|--------------------------|--|
| Letter-Number Sequencing | <p>The examinee is read a sequence of numbers and letters and recalls the numbers in ascending order and the letters in alphabetical order.</p> <p>Involves sequential processing, mental manipulation, attention, concentration, memory span, short-term auditory memory.</p> |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 44



Processing Speed Index - Subtests

Measure

- ability to quickly and correctly scan, sequence, and discriminate simple visual information
- short-term visual memory
- attention
- visual-motor coordination

Processing Speed Index Scale

Core Subtests


Symbol Search

Coding

Supplemental Subtest


Cancellation (16-69 only)

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 45

 **Processing Speed Index - Subtests**

| Subtest | Description |
|---------------|--|
| Symbol Search | Working within a specified time limit, the examinee scans a search group and indicates whether one of the symbols in the target group matches. |
| | Measures processing speed, short-term visual memory, visual-motor coordination, visual discrimination, psychomotor speed, speed of mental operation, attention, concentration. |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 46

 **Changes to Processing Speed Subtests**

Symbol Search


- Enlarged symbols
- Revised format and instructions

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 47

 **Symbol Search Administration**


- ◆ **Demonstration and Sample items**
 - Demonstration item teaches the task
 - Sample item allows examinee to practice
- ◆ **Time limit = 120 seconds**
- ◆ **Examinee marks either matching symbol in search group or "NO" box**
 - Allows for qualitative examination of errors

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 48

 **Processing Speed Index - Subtests**

| Subtest | Description |
|---------|--|
| Coding | Using a key, the examinee copies symbols that are paired with numbers within a specified time limit. Measures processing speed, short-term visual memory, psychomotor speed, visual perception, visual-motor coordination, visual scanning ability, attention, concentration. |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 49

 **Changes to Processing Speed Subtests**

Coding

- Enlarged symbols and writing space
- Redesigned for more equivalent item difficulty across task
- Revised instructions for consistency with WISC-IV

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 50

 **Processing Speed Subtests**

| Subtest | Description |
|--------------|--|
| Cancellation | Working within a specified time limit, the examinee scans a structured arrangement of shapes and marks target shapes. Measures processing speed, visual selective attention, vigilance, perceptual speed, visual-motor ability. |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 51



Cancellation - Administration

- Demonstration and Sample items for each test item
 - Demonstration item teaches the task
 - Sample item allows examinee to practice
- Two test items; Time limit 45 seconds each

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved.

52



Scoring

- Calculate raw score for each subtest.
- Convert raw scores to scaled scores.
- Generate sums of scaled scores [indexes, Full Scale].
- Convert sums of scaled scores to composite scores.
- Perform discrepancy comparisons.
- Identify subtest strengths and weaknesses.
- Conduct optional process analysis.

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved.

53




Age Groups - 13

16:0 - 17:11
18:0 - 19:11
20:0 - 24:11
25:0 - 29:11
30:0 - 34:11
35:0 - 44:11

45:0 - 54:11
55:0 - 64:11
65:0 - 69:11
70:0 - 74:11
75:0 - 79:11
80:0 - 84:11
85:0 - 90:11


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved.

54

 **Reference Group Scores
(Ages 20:0 to 34:11)**

Typically used for research or to address a very specific clinical question (how does individual perform on the WAIS-IV subtests in comparison to this age-group).


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 55

 **Reference Group Scores
(Ages 20:0 to 34:11)**

These scores do not capture the normal variations that occur by age

- Example: our processing speed decreases as we age. If we use this reference group to evaluate the performance of a 60-year-old, his/her scores will be low.

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 56

 **Process Scores**

Block Design

- Block Design No Time Bonus (BDN)


Digit Span

- Digit Span Forward (DSF)
- Digit Span Backward (DSB)
- Digit Span Sequencing (DSS)
- Longest Digit Span Forward (LDSF)
- Longest Digit Span Backward (LDSB)
- Longest Digit Span Sequence (LDSS)

Letter-Number Sequencing

- Longest Letter-Number Sequence (LLNS)


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 57



Scoring Software

- ◆ WAIS-IV Scoring Assistant
- ◆ WAIS-IV Report Writer

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 58




What should we do now that VIQ and PIQ are not part of the WAIS?

Page 9 - Technical Manual

“The terms VCI and PRI should be substituted for the terms VIQ and PIQ in clinical decision making and other situations where VIQ and PIQ were used.”

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 59



Composite Scores

Full Scale IQ

- ◆ Based on 10 core subtests

Index Scores: Primary interpretation level

- ◆ VCI & PRI: 3 core subtests each
- ◆ WMI & PSI: 2 core subtests each

General Ability Index = VCI + PRI

- ◆ Optional Index score

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 60



What is the GAI?

The WAIS-IV GAI provides the practitioner with a summary score that is less sensitive than the FSIQ to the influence of working memory and processing speed.

GAI = sum of scaled scores for VCI subtests and PRI subtests

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 61



General Ability Index

Consider using the GAI if a significant and unusual discrepancy exists between

- ✓ VCI and WMI; or
- ✓ PRI and PSI; or
- ✓ WMI and PSI, or
- ✓ between subtests within WMI and/or PSI.

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 62



Deriving and Analyzing the GAI

- Step 1. Obtain the General Ability Sum of Scaled Scores
- Step 2. Determine the GAI Score (Table C.1 - Tech Manual)
- Step 3. Perform the FSIQ-GAI Discrepancy Comparison (Tables C.2, C.3 - Tech Manual)

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 63



Table C.2 - Technical Manual

Table C.2 was updated since original publication of WAIS-IV. Go to

<http://www.pearsonassessments.com/NR/rdonl yres/76496E27-0B90-478B-B7D5-CF05983EBCD8/0/WAISIVTechManual TableC2 .pdf>

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 64



Suggested Procedures for Basic Profile Analysis

- Step 1. Report and Describe the FSIQ
- Step 2. Report and Describe the Index Scores (VCI, PRI, WMI, PSI)
- Step 3. Evaluate Index-Level Discrepancy Comparisons
- Step 4. Evaluate Subtest Strengths and Weaknesses

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 65

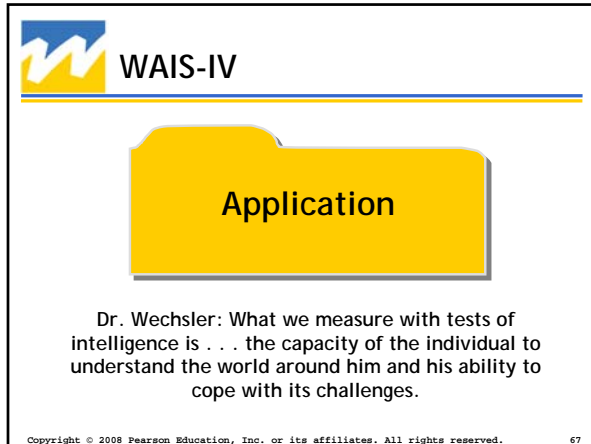


Suggested Procedures for Basic Profile Analysis

- Step 5. Evaluate Subtest-Level Discrepancy Comparisons
- Step 6. (Optional) Evaluate the Pattern of Scores Within Subtests

[Is there a pattern of correct and then few incorrect? or
Is there substantial item scatter?]

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 66

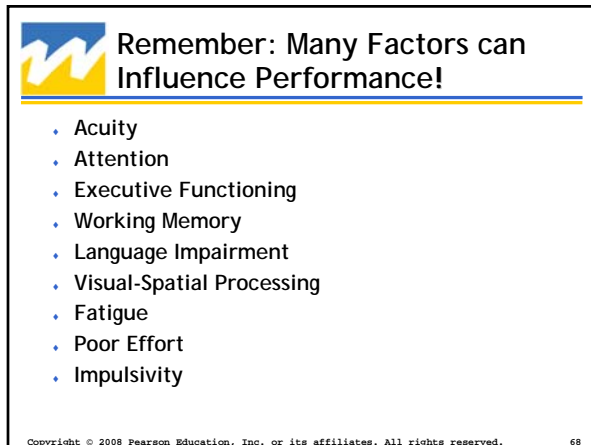


WAIS-IV

Application

Dr. Wechsler: What we measure with tests of intelligence is . . . the capacity of the individual to understand the world around him and his ability to cope with its challenges.

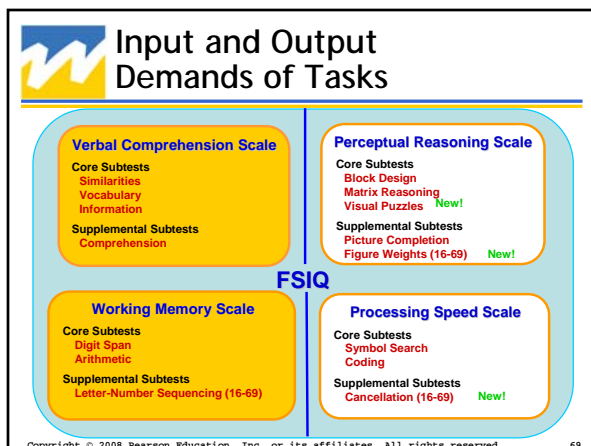
Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 67



Remember: Many Factors can Influence Performance!

- Acuity
- Attention
- Executive Functioning
- Working Memory
- Language Impairment
- Visual-Spatial Processing
- Fatigue
- Poor Effort
- Impulsivity


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 68



Input and Output Demands of Tasks

| | |
|--|--|
| <p>Verbal Comprehension Scale</p> <p>Core Subtests Similarities Vocabulary Information</p> <p>Supplemental Subtests Comprehension</p> | <p>Perceptual Reasoning Scale</p> <p>Core Subtests Block Design Matrix Reasoning Visual Puzzles New!</p> <p>Supplemental Subtests Picture Completion Figure Weights (16-69) New!</p> |
| FSIQ | |
| <p>Working Memory Scale</p> <p>Core Subtests Digit Span Arithmetic</p> <p>Supplemental Subtests Letter-Number Sequencing (16-69)</p> | <p>Processing Speed Scale</p> <p>Core Subtests Symbol Search Coding</p> <p>Supplemental Subtests Cancellation (16-69) New!</p> |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 69



WAIS-IV Scores (Female 40-8)

| Index/Subtest | Composite Score/ Scaled Score | Index/Subtest | Composite Score/ Scaled Score |
|--|----------------------------------|-----------------------------|----------------------------------|
| Verbal Comprehension | 112 | Perceptual Reasoning | 88 |
| Similarities | 12 | Block Design | 9 |
| Vocabulary | 13 | Matrix Reasoning | 7 |
| Information | 12 | Visual Puzzles | 8 |
| Working Memory | 114 | Processing Speed | 89 |
| Digit Span | 13 | Coding | 7 |
| Arithmetic | 12 | Symbol Search | 9 |
| Full Scale IQ = 101 General Ability Index = 101 | | | |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 70



Abilities Measured

Verbal Comprehension Scale

Core Subtests
 Similarities
 Vocabulary
 Information

Supplemental Subtests
 Comprehension

Perceptual Reasoning Scale

Core Subtests
 Block Design
 Matrix Reasoning
 Visual Puzzles New!

Supplemental Subtests
 Picture Completion
 Figure Weights (16-69) New!

FSIQ

Working Memory Scale

Core Subtests
 Digit Span
 Arithmetic


Supplemental Subtests
 Letter-Number Sequencing (16-69)

Processing Speed Scale

Core Subtests
 Symbol Search
 Coding

Supplemental Subtests
 Cancellation (16-69) New!


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 71



WAIS-IV Scores (Male 17-1)

| Index/Subtest | Composite Score/ Scaled Score | Index/Subtest | Composite Score/ Scaled Score |
|--|----------------------------------|-----------------------------|----------------------------------|
| Verbal Comprehension | 120 | Perceptual Reasoning | 115 |
| Similarities | 14 | Block Design | 12 |
| Vocabulary | 16 | Matrix Reasoning | 13 |
| Information | 11 | Visual Puzzles | 13 |
| Working Memory | 89 | Processing Speed | 111 |
| Digit Span | 7 | Coding | 11 |
| Arithmetic | 9 | Symbol Search | 13 |
| Full Scale IQ = 112 General Ability Index = 121 | | | |


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 72



WAIS-IV Normative Sample

- ◆ Ages 16-90
- ◆ Normative sample: N = 2,200
 - 200 examinees per age band for ages 16-69
 - 100 examinees per age band for ages 70-90
- ◆ National sample stratified by:
 - Sex
 - Education Level (age 16-19: parent educ.)
 - Ethnicity
 - Region


Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 73



Composite Reliabilities

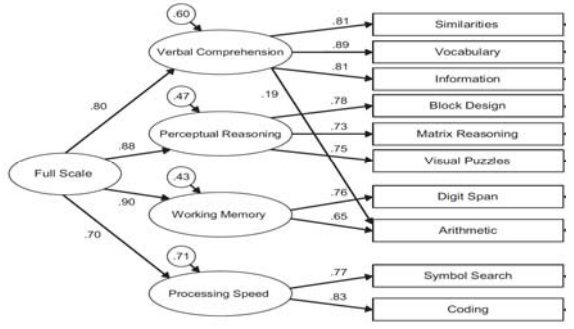
| Composite | WAIS-IV (16-90) | WAIS-III (16-89) | WISC-IV (6-16) |
|---------------|--------------------|---------------------|-------------------|
| VCI (VIQ) | .96 | .96 (.97) | .94 |
| POI/PRI (PIQ) | .95 | .93 (.94) | .92 |
| WMI | .94 | .94 | .92 |
| PSI | .90 | .88 | .88 |
| FSIQ | .98 | .98 | .97 |

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 74




Core Subtests: Ages 16-90

Fit of 10 Core: AGFI=.97, RMSEA=.05




Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 75

 **WAIS-IV Validity Studies**


See Technical Manual
E.g., WISC-IV, WMS-IV, CMS,
WIAT-II/WIAT-III

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 76

 **WAIS-IV Clinical Studies**


- Intellectual Disability: Mild Severity
- Intellectual Disability: Moderate Severity
- Borderline Intellectual Functioning
- Gifted Intellectual Functioning
- Autistic Disorder
- Asperger's Disorder

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 77

 **WAIS-IV Clinical Studies**

- Learning Disability: Reading
- Learning Disability: Math
- ADHD
- TBI
- Mild Cognitive Impairment
- Dementia of the Alzheimer's Type
- Depression

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 78



Intellectual Disability: Mild Severity

| Composite | Clinical Mean | Control Mean | Mean Diff. | p value | Effect Size |
|-----------|---------------|--------------|------------|---------|-------------|
| VCI | 65.9 | 96.6 | 30.68 | <.01 | 2.83 |
| PRI | 65.4 | 100.1 | 34.66 | <.01 | 3.07 |
| WMI | 61.5 | 97.4 | 35.85 | <.01 | 3.32 |
| PSI | 63.8 | 100.2 | 36.45 | <.01 | 2.69 |
| FSIQ | 58.5 | 98.1 | 39.59 | <.01 | 4.01 |

n = 73

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 79



Customer Service
 1-800-211-8378 (USA)
 1-866-335-8418 (Canada)

Webinar-Specific Questions
[Gloria Maccow, Ph.D.](mailto:gloria.maccow@pearson.com)
gloria.maccow@pearson.com

www.wais-iv.com
www.psychcorp.com

Copyright © 2008 Pearson Education, Inc. or its affiliates. All rights reserved. 80
