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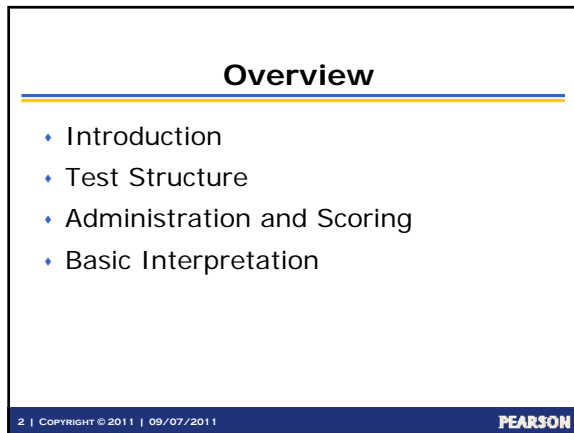
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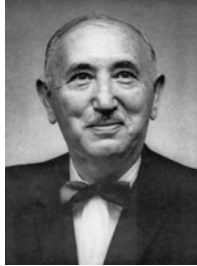
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### David Wechsler 1896-1981

- 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
- Introduced Verbal IQ, Performance IQ, Full Scale IQ
- First to employ Deviation IQ
- A master clinician who often gave non-standardized intelligence tests



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### A Historical Perspective

Wechsler-Bellevue	1939
Wechsler-Bellevue II	1946
WAIS	1955
WAIS-R	1981
WAIS-III	1997
WAIS-IV	2008

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### 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, MD: Williams & Wilkins, p. 229.

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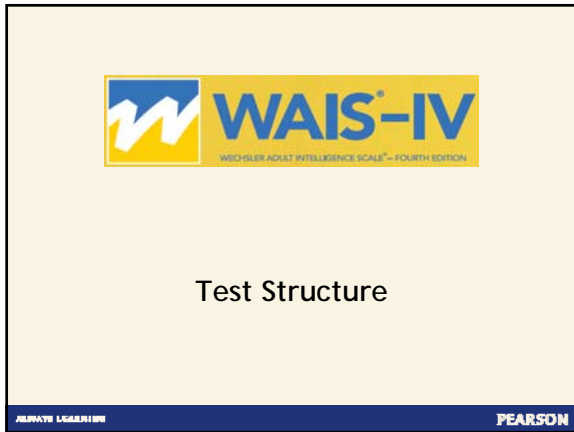
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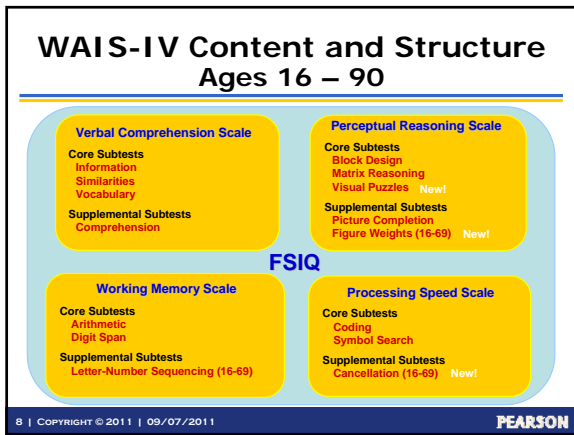
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### Introducing the WAIS-IV

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- “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?”

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### Subtests - Administration Order (See Record Form)

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<ol style="list-style-type: none"><li>1. Block Design</li><li>2. Similarities</li><li>3. Digit Span</li><li>4. Matrix Reasoning</li><li>5. Vocabulary</li><li>6. Arithmetic</li><li>7. Symbol Search</li><li>8. Visual Puzzles</li><li>9. Information</li><li>10. Coding</li></ol>	<ol style="list-style-type: none"><li>11. Letter-Number Sequencing</li><li>12. Figure Weights</li><li>13. Comprehension</li><li>14. Cancellation</li><li>15. Picture Completion</li></ol>
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### Subtest Substitution

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- 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.

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**Prorating**

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- 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.

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**Administration Guidelines**

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Start Points	 Start
Reverse Rules	 Reverse
Discontinue Rule	 Discontinue

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**Administration Guidelines**

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Demonstration Items	Examiner explains task
Sample Items	Examinee practices
Teaching Items ↑	Examiner teaches if needed and prescribed

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### Administration Guidelines

- Queries – for responses that are marginal, generalized, functional, made with hand gestures
- Prompts (e.g., “Do you have an answer?”)
- Repetition

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### 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

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### Verbal Comprehension Index Subtests

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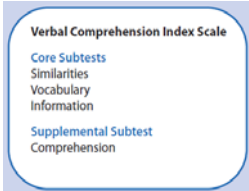
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### Verbal Comprehension Index Subtests

**Measure**

- verbal concept formation
- verbal reasoning
- knowledge acquired from environment



Require auditory comprehension and verbal expression.

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### 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.

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### Similarities – 12 new items

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

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**Vocabulary**

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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.

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**Vocabulary – 9 new items**

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*Picture Items:* "What is this?"

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

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**Information**

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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.

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**Information – 11 new items**

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See Administration Manual.  
Read each item verbatim.

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**Comprehension**

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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.

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**Comprehension – 11 new items**

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See Administration Manual.  
Read each item verbatim.

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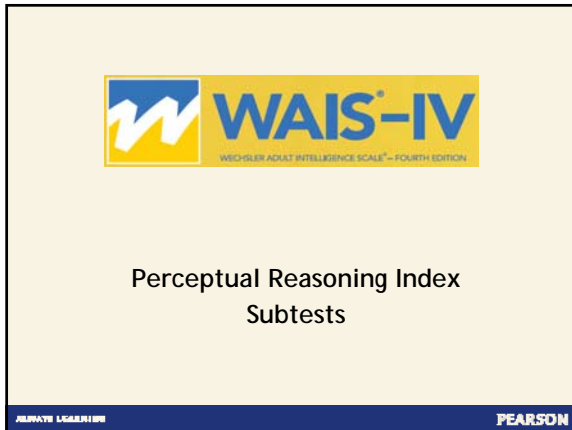
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### Perceptual Reasoning Index Subtests

**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

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### 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.

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### 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

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### 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.

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### 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.

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### Administration of Visual Puzzles (VP)

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- Examinee must pick exactly 3 responses
- Demonstration Item:
  - ✓ demonstrates task;
  - ✓ teaches examinee not to stack pieces to get the answer; and
  - ✓ teaches examinee to choose exactly 3 responses.
- Sample Item:
  - ✓ provides practice for examinee; and
  - ✓ teaches examinee that pieces may need to be turned to make them fit.

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### Perceptual Reasoning Subtests

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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.

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### Figure Weights

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At item 16:  
"Now you have to look at all three scales to find the right answer."

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### 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.

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Working Memory Subtests

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### 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)

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### 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.

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### 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.

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### 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.

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**Arithmetic**

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**Introduction**

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

*Sample Item*

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**Working Memory Subtests**

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

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**Processing Speed Index  
Subtests**

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### Processing Speed Index Subtests

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**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)

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### Processing Speed Index Subtests

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

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### Symbol Search Administration

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- ◆ 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

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### 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.

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### 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.

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### 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

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**Key Points of  
Cancellation Administration**

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- ◆ For test items, open booklet to expose entire 11x17 spread.
- ◆ Examinee must complete items from the left to the right, all the way across the row.

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**Scoring**

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**Scoring**

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- 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.

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**Age Groups - 13**

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16:0 – 17:11	45:0 – 54:11
18:0 – 19:11	55:0 – 64:11
20:0 – 24:11	65:0 – 69:11
25:0 – 29:11	70:0 – 74:11
30:0 – 34:11	75:0 – 79:11
35:0 – 44:11	80:0 – 84:11
	85:0 – 90:11

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

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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).

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

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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.

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**Process Scores**

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*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)

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**Scoring Software**

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

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

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*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.”

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### Composite Scores

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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

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### What is the GAI?

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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

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### General Ability Index

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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.

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**Deriving and Analyzing  
the GAI**

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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)

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**Table C.2 – Technical Manual**

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Table C.2 was updated since original publication of WAIS-IV. Go to [http://www.pearsonassessments.com/NR/rdonlyres/76496E27-0B90-478B-B7D5-CF05983EBCD8/0/WAISIVTechManual\\_TableC2.pdf](http://www.pearsonassessments.com/NR/rdonlyres/76496E27-0B90-478B-B7D5-CF05983EBCD8/0/WAISIVTechManual_TableC2.pdf)

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**Suggested Procedures for Basic  
Profile Analysis**

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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

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### 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?]

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### 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.

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### Remember: Many Factors can Influence Performance!

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

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### Input and Output Demands of Tasks

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

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### WAIS-IV Scores (Female 40-8)

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

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### Discrepancy Comparisons

Index Level Discrepancy Comparisons						
Comparison	Score 1	Score 2	Difference	Critical Value .05	Sign. Diff. Y / N	Base Rate Overall Sample
VCI - PRI	112	88	24	8.81	Y	4.2
VCI - WMI	112	114	-2	8.81	N	
VCI - PSI	112	89	23	12.12	Y	8
PRI - WMI	88	114	-26	9.29	Y	2.4
PRI - PSI	88	89	-1	12.47	N	
WMI - PSI	114	89	25	12.47	Y	6
FSIQ - GAI	101	101	0	3.66	N	

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### Process-Level Discrepancy Comparisons

Process Comparison	Score 1	Score 2	Diff.	Critical Value .05	Sign. Diff. Y / N	Base Rate
BD - BDN	112	88	24	8.81	N	21.5
DSF - DSB	112	114	-2	8.81	N	17.4
DSF - DSS	112	89	23	12.12	N	21.1
DSB - DSS	88	114	-26	9.29	N	
Longest DSF - Longest DSB	88	89	-1	12.47	--	30.5
Longest DSB - Longest DSS	114	89	25	12.47	--	33.5
Longest DSB - Longest DSS	101	101	0	3.66	--	63.5

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### Normative Sample Technical Information Clinical Studies

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### 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

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### 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

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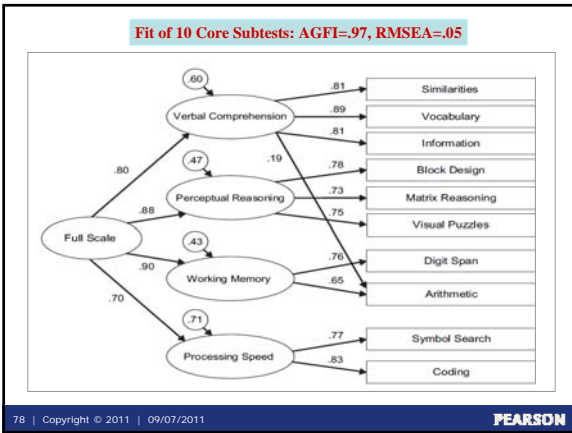
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### WAIS-IV Validity Studies

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

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**WAIS-IV Clinical Studies**

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

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**WAIS-IV Clinical Studies**

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

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**Intellectual Disability: Mild Severity**

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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

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**WEBINAR-SPECIFIC QUESTIONS**  
Gloria Maccow, Ph.D.  
[gloria.maccow@pearson.com](mailto:gloria.maccow@pearson.com)

[www.wais-iv.com](http://www.wais-iv.com)  
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