



# Understanding the OLSAT 8

**OLSAT**<sup>®</sup>  
Otis-Lennon School Ability Test<sup>®</sup>  
Eighth Edition

PEARSON





# Agenda

- Overview
- About the Authors
- Test Construction
- Areas of Evaluation
- Dimensions of OLSAT8
- Scope and Sequence
- Score Types and Interpretation
- Sample Score Reports

# Overview -

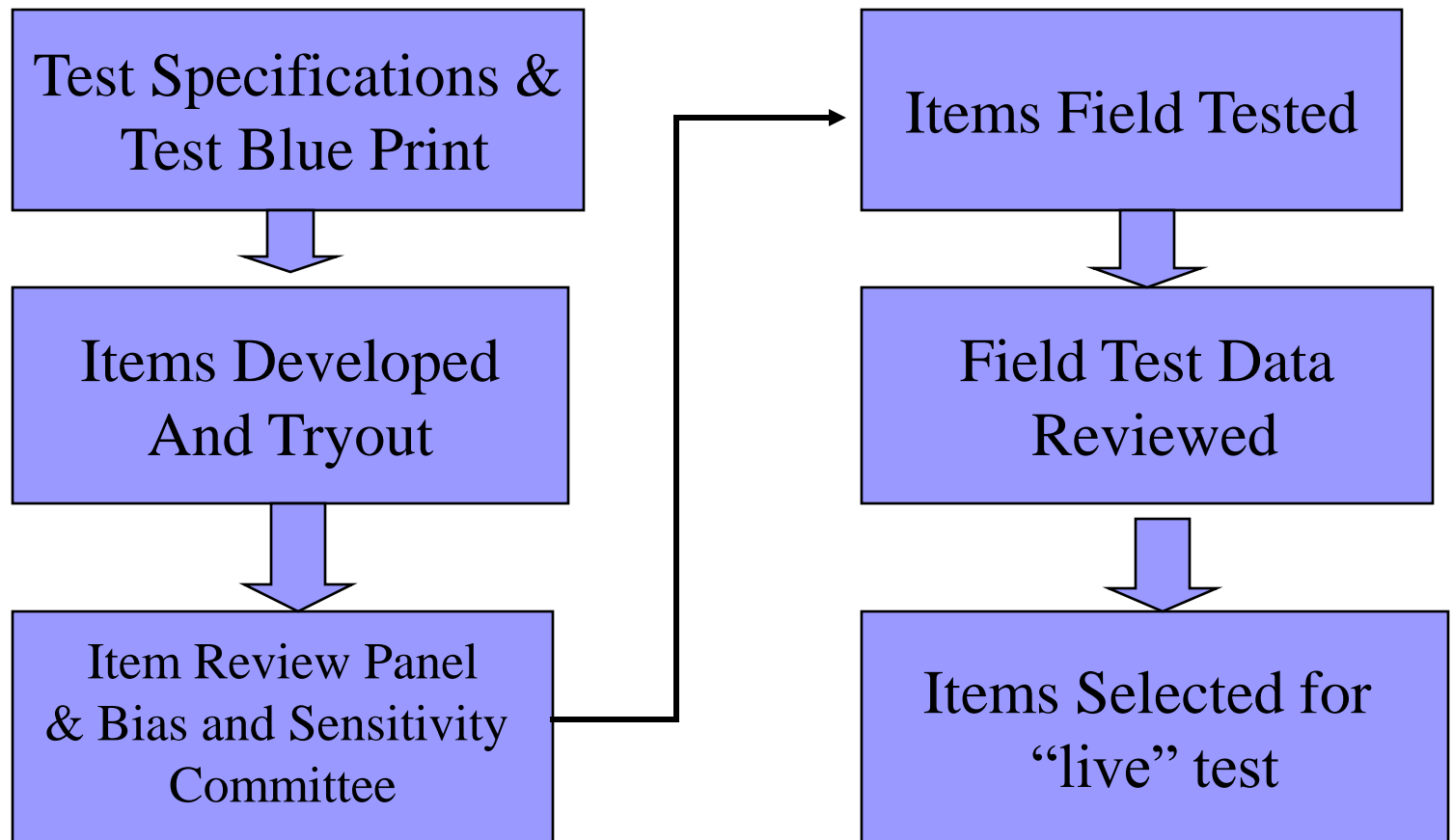
- Otis Lennon School Ability Test (OLSAT), Eighth Edition
- Measures the cognitive abilities that relate to a student's ability to learn and succeed in school
- Uses both verbal and nonverbal measures
- Is group-administered in grades K-12
- Provides valid and reliable information
- Normed in 2002



# About the Authors

- A tradition of technical excellence
- Distinguished authors Arthur S. Otis and Roger T. Lennon
- First published in 1936
- The standard for educators who want to assess the unique abilities each student brings to the learning process

# Test Construction Process



# Areas of Evaluation include:

- Detecting likenesses and differences
- Recalling words and numbers
- Defining words
- Following directions
- Classifying
- Establishing sequence
- Solving arithmetic problems
- Completing analogies

# Dimensions of the OLSAT

## ■ Verbal

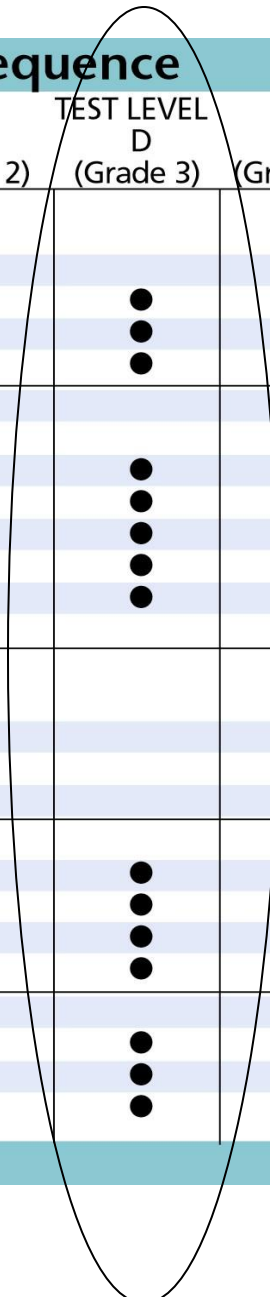
- Verbal comprehension
- Verbal reasoning

## ■ Non-Verbal

- Pictorial reasoning
- Figural reasoning
- Quantitative reasoning

# Scope and Sequence

Cluster/Item Type	TEST LEVEL						
	A (Kindergarten)	B (Grade 1)	C (Grade 2)	D (Grade 3)	E (Grades 4-5)	F (Grades 6-8)	G (Grades 9-12)
<b>VERBAL</b>							
Verbal Comprehension							
Following Directions	●	●	●				
Antonyms				●	●	●	●
Sentence Completion				●	●	●	●
Sentence Arrangement				●	●	●	●
Verbal Reasoning							
Aural Reasoning	●	●	●				
Arithmetic Reasoning	●	●	●	●	●	●	●
Logical Selection				●	●	●	●
Word/Letter Matrix				●	●	●	●
Verbal Analogies				●	●	●	●
Verbal Classification				●	●	●	●
Inference					●	●	●
<b>NONVERBAL</b>							
Pictorial Reasoning							
Picture Classification	●	●	●				
Picture Analogies	●	●	●				
Picture Series	●						
Figural Reasoning							
Figural Classification	●	●	●	●			
Figural Analogies	●	●	●	●	●	●	●
Pattern Matrix	●	●	●	●	●	●	●
Figural Series	●	●	●	●	●	●	●
Quantitative Reasoning							
Number Series				●	●	●	●
Numeric Inference				●	●	●	●
Number Matrix				●	●	●	●





# Score Types

- Raw Scores – number of items correct
- Scaled Scores – used to link levels
- Normal Curve Equivalents (NCEs) – used for research and provide equal intervals
- Age Based OR Grade Based Norms
  - Percentile Ranks – indicate the relative standing
  - Stanines – compare scores across subtest
  - School Ability Index – age based norm used to comparison of a students score to student of the same age.

# Interpreting These Scores

NORMAL DISTRIBUTION CURVE

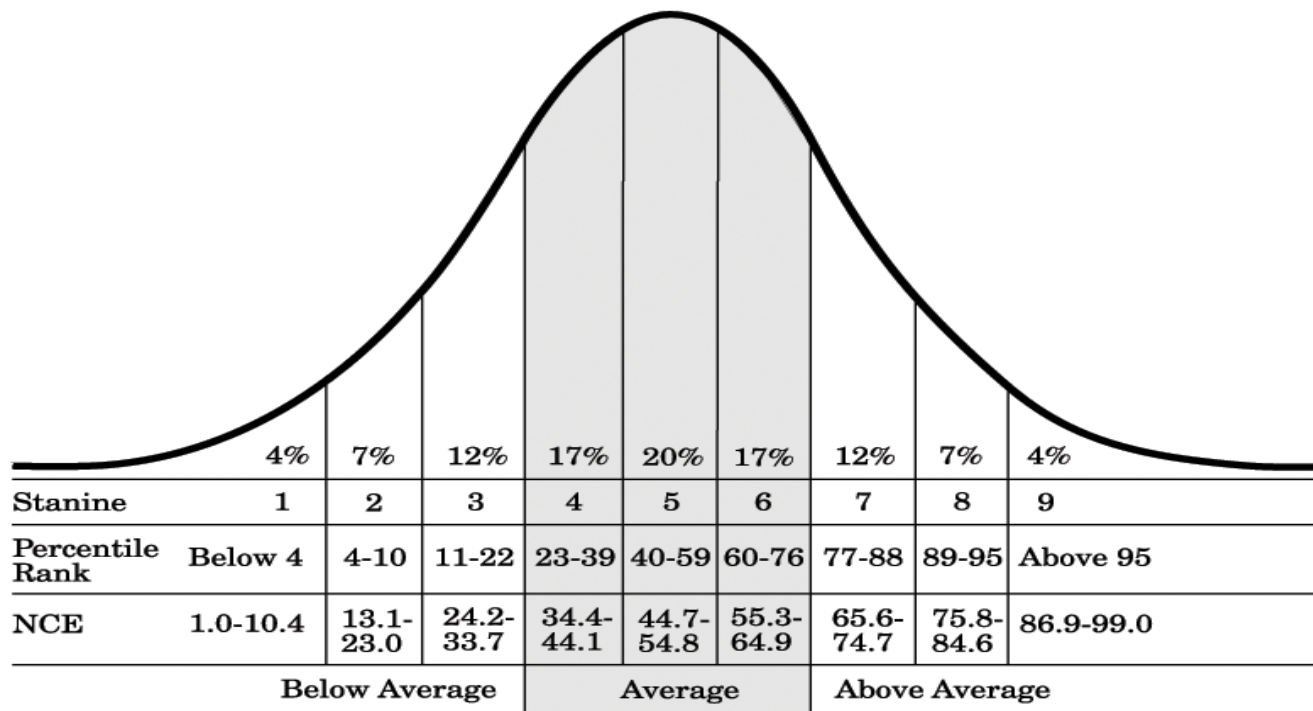


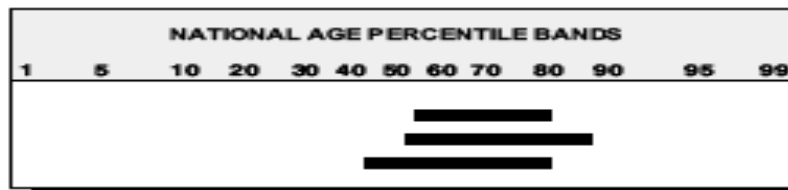
FIGURE 1. A Normal Distribution of Stanines, Percentile Ranks, Normal Curve Equivalents, and Performance Classifications.

TEACHER: RUIZ  
 SCHOOL: NEWTOWN ELEMENTARY  
 DISTRICT: NEWTOWN

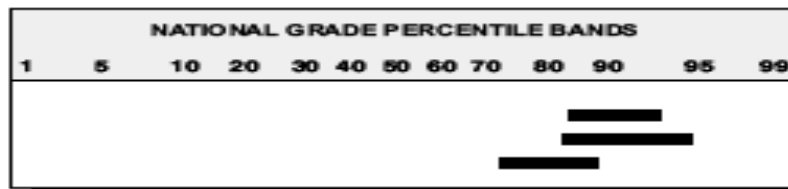
GRADE: 01  
 TEST DATE: 09/04

**STUDENT REPORT  
 FOR  
 TINA PALERMO**  
 Age: 8 Yrs 03 Mos  
 Student No: 1150036

AGE-BASED SCORES	No. of Items	Number Correct	SAI	Age PR-S	Age NCE
Total	60	51	107	67-6	59.3
Verbal	30	26	110	73-6	62.9
Nonverbal	30	25	105	62-6	56.4



GRADE-BASED SCORES	Scaled Score	National Grade PR-S	National Grade NCE		
Total	589	91-8	78.2		
Verbal	586	92-8	79.6		
Nonverbal	592	82-7	69.3		



CLUSTERS	Number Correct/ Number of Items	Below Average	Average	Above Average
<b>VERBAL</b>	26/30			✓
Verbal Comprehension	10/12			✓
Verbal Reasoning	16/18			✓
<b>NONVERBAL</b>	25/30			✓
Pictorial Reasoning	9/10			✓
Figural Reasoning	16/20			✓
<b>TOTAL</b>	51/60			✓

Recently this student took the *Otis-Lennon School Ability Test (OLSAT)*. OLSAT measures those reasoning skills that are related to school-learning ability. The following is an interpretation of the student's performance on OLSAT.

The student's total OLSAT score is average in comparison with students of the same age. The verbal and nonverbal part scores are also in the average range.

In comparison with students in the same grade, the student's total OLSAT score is above average, as are the verbal and nonverbal part scores.

The cluster analysis presents performance indicators for this student on each of the clusters in OLSAT. These indicators, which are expressed as above average, average, and below average, describe the student's performance relative to that of other students in the same grade.

Verbal Comprehension refers to the understanding of the structure of language, of relationships among words, and of subtle differences among similar words. Verbal Reasoning refers to the ability to use language for such reasoning tasks as inference, application, and classification. Pictorial Reasoning refers to the ability to make inferences and evaluations using pictorial representations. Figural Reasoning involves geometric shapes rather than words. Pictorial Reasoning and Figural Reasoning are independent of language.

It should be kept in mind that OLSAT scores give only one piece of information about a student. Other factors such as school achievement and interests should also be taken into account.

SCHOOL: NEWTOWN ELEMENTARY -  
 DISTRICT: NEWTOWN

GRADE: 02  
 TEST DATE: 09/04

Student Listing is alphabetical.

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STUDENT NAME AGE STUDENT NUMBER		Number Correct/ Number Possible	SAI	Age PR-S	Age NCE	Scaled Score	National Grade PR-S	National Grade NCE		
WALL, ZARKO C 9 Yrs 00 Mos 1140070	TOTAL	42/60	98	45-5	47.4	582	76-6	64.9		
	VERBAL	19/30	92	31-4	39.6	566	68-6	59.8		
	NONVERBAL	23/30	105	62-6	56.4	600	79-7	67.0		
WANG, JOHN S 8 Yrs 07 Mos 1140030	TOTAL	46/60	109	71-6	61.7	596	87-7	73.7		
	VERBAL	21/30	103	57-5	53.7	578	79-7	67.0		
	NONVERBAL	25/30	116	84-7	70.9	617	87-7	73.7		
WANG, SHUDONG S 8 Yrs 07 Mos 114055	TOTAL	35/60	91	29-4	38.3	562	54-5	52.1		
	VERBAL	17/30	92	31-4	39.6	556	58-5	54.3		
	NONVERBAL	18/30	92	31-4	39.6	569	48-5	48.9		
WILSON, SARAH N 8 Yrs 10 Mos 1140064 0	TOTAL	24/60	76	7-2	18.9	533	19-3	31.5		
	VERBAL	11/30	76	7-2	18.9	524	20-3	32.3		
	NONVERBAL	13/30	78	9-2	21.8	541	21-3	33.0		
WINN, JOHN M 9 Yrs 01 Mos 1140038	TOTAL	48/60	108	69-6	60.4	603	91-8	78.2		
	VERBAL	25/30	111	75-6	64.2	606	93-8	81.1		
	NONVERBAL	23/30	105	62-6	56.4	600	79-7	67.0		
WITHAM, NINA M 9 Yrs 02 Mos 1140001	TOTAL	39/60	93	33-4	40.7	573	67-6	59.3		
	VERBAL	20/30	95	38-4	43.6	572	74-6	63.5		
	NONVERBAL	19/30	93	33-4	40.7	575	56-5	53.2		
WITT, JOSEPH C 8 Yrs 07 Mos 1140046	TOTAL	50/60	117	86-7	72.8	612	93-8	81.1		
	VERBAL	26/30	119	88-7	74.7	616	95-8	84.6		
	NONVERBAL	24/30	111	75-6	64.2	608	83-7	70.1		
WU, STEVE A 8 Yrs 10 Mos 114073	TOTAL	51/60	117	86-7	72.8	616	94-8	82.7		
	VERBAL	27/30	121	90-8	77.0	628	97-9	89.6		
	NONVERBAL	24/30	111	75-6	64.2	608	83-7	70.1		

# Questions?

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