TALSA Scoring Manual: Sentence Comprehension

Test Description:
This subtest assesses sentence comprehension. The use of one and five second intervals between the words or nonwords assesses verbal short-term and working memory.

Test Variations:
1. 1 second interval consisting of **10** items.
2. 5 second interval consisting of **10** items.

Scoring each Question:
1 – Wrong answer
2 - Partially met criteria.   Partial credit is allowed when the patient/client gives the correct answer but responds early (i.e., before the beep) or late (i.e., after the response screen has disappeared.)
3 – Correct answer

Scoring the Subtest:
1. <u>Calculate the total raw score:</u> Add up the point values for each item. The lowest possible raw score is 10; the highest possible raw score is 30.
2. <u>Determine the T-score</u>: Use the appropriate cross-walk table to determine the T-score. The T-score rescales the raw score into a standardized score with a mean of 50 and a standard deviation (SD) of 10. The standardized T-score is reported as the final score for each participant. The 95% confidence interval can be determined as T-score $\pm$ (1.96*SE).
   <u>Note:</u> All questions on the form must be answered in order to produce the most valid summed score. However, if a respondent answers at least 50% of the items the following algorithm can be used to derive a score. For these pro-rated raw scores, use caution when interpreting the final pro-rated T-score.

   *Pro-rated raw summed score = <u>(Sum of the item responses answered) * (number of items on the form)</u>*
   (number of items actually answered)
   If the result is a fraction, round up to the nearest whole number.
   Example: The patient answered only 6 items on an 8 item subtest and received a raw score of 13.
   $$\frac{13 \times 8}{6} = 17.3 \rightarrow \text{so round to 17}$$

The T-score calculation for the Sentence Comprehension subtest is based on a relatively small number of subjects (n=27 of both subjects with aphasia and neurotypical controls). Therefore, the T-scores generated for this particular subtest should be used with caution.

Scoresheet – Sentence Comprehension

		Items	Correct Answer	Points 1 second	Points 5 seconds
8.1 Sentence Comprehension – 1 second and 5 second
1 second
1		The father that read to the child is smart.	right		---
2		The girl that the boy tapped is new.	left		---
3		The dog that licked the cat is friendly.	left		---
4		The dog that the boy followed is hungry.	right		---
5		The picture is under the book.	left		---
5 seconds
1		The girl that the boy tapped is new.	left	---	
2		The cat is on the blanket.	right	---	
3		The team is applauded by the coach.	left	---	
4		The deer is followed by the hunter.	right	---	
5		The mailman waves to the boy.	left	---	
6		The picture is under the book.	left	---	
7		The father that read to the child is smart.	right	---	
8		The dog that the boy followed is hungry.	right	---	
9		The boy chases the girl.	right	---	
10		The dog that licked the cat is friendly.	left	---	
1 second
6		The deer is followed by the hunter.	right		---
7		The boy chases the girl.	right		---
8		The team is applauded by the coach.	left		---
9		The cat is on the blanket.	right		---
10		The mailman waves to the boy.	left		---
			Raw Total (1 sec)		---
			T-Score (1 sec)		---
			Raw Total (5 sec)	---	
			T-score (5 sec)	---	

Scoring Cross-walk Tables for converting Raw scores to T-scores

*** *Interpret with caution - based on fewer than 30 respondents*

8.1 Sentence Comprehension 1SUF			
10-item Form: Sum Score to T-Score Conversion Table			
Raw score	T-Score	Standard Error (SE)	Severity
10	<25	4	Severe
11	<25	4	
12	<25	4	
13	<25	4	
14	<25	4	
15	<25	4	
16	<25	4	
17	<25	4	
18	<25	4	
19	<25	4	
20	30	1.9	
21	33	1.9	
22	36	1.9	
23	39	1.9	
24	42	1.9	Mod
25	45	1.9	
26	48	1.9	Mild
27	51	1.9	
28	54	1.9	
29	57	1.9	WNL
30	57	1.9	

8.2 Sentence Comprehension 5SUF			
10-item Form: Sum Score to T-Score Conversion Table			
Raw score	T-Score	Standard Error (SE)	Severity
10	<25	4	Severe
11	<25	4	
12	<25	4	
13	<25	4	
14	<25	4	
15	<25	4	
16	<25	4	
17	<25	4	
18	26	1.9	
19	29	1.9	
20	31	1.9	
21	34	1.9	
22	38	1.9	
23	41	1.9	Mod
24	44	1.9	
25	46	1.9	
26	49	1.9	Mild
27	53	1.9	
28	55	1.9	WNL
29	59	1.9	
30	61	1.9	