CTP-H Release Codebook (wave 9) ***[T] = twin # [W] = H***

General Variables
Addition Strategy
CELF (Clinical Evaluation of Language Fundamentals) – version 4
    Understanding Spoken Paragraphs
Colorado Perceptual Speed Test
CTOPP (Comprehensive Test of Phonological Processing)
    Non-Word Repetition
    Rapid Digit & Letter
Fast Math
Four Choice Reaction Time
Gates MacGinitie Reading
Letter Memory
Numberline Estimation
Stanford Binet: Memory For Digits (4th Edition)
Stop Signal
TOWRE (Test of Word Reading Efficiency)
    Phonemic Decoding Efficiency
    Sight Word Efficiency
WISC IV: Coding
Woodcock Reading Mastery Tests – Revised
    Passage Comprehension
Woodcock Johnson – WJ Tests of Achievement - Revised (scored with WJ III NU software)
    Calculation
    Math Fluency
    Applied Problems

Additional information about many of these measures can be found in Sara Hart's Doctoral dissertation:
Hart, S.A. (2010). Getting to the Core of it all: An Exploration of Domain Specific and Domain General Influences on Mathematics Outcomes (Doctoral dissertation). Retrieved from http:www.ohiolink.edu/etc/

CTP-H Release Codebook (wave 9) ***[T] = twin # [W] = H***

Data from this wave were collected and/or managed via the OSU CCTS REDCap system. As such, if you use this data, CCTS & REDCap request that their work be acknowledged:

Please cite The Ohio State University Center for Clinical and Translational Science grant support **(Clinical and Translational Science Award, NIH/NCRR Grant Number UL1-RR025755)** in publications relating to this project.

Please also cite the REDCap project when publishing manuscripts. The following boilerplate language is recommended:

Study data were collected and managed using REDCap electronic data capture tools hosted at The Ohio State University.[1] REDCap (Research Electronic Data Capture) is a secure, web-based application designed to support data capture for research studies, providing: 1) an intuitive interface for validated data entry; 2) audit trails for tracking data manipulation and export procedures; 3) automated export procedures for seamless data downloads to common statistical packages; and 4) procedures for importing data from external sources.

[1]Paul A. Harris, Robert Taylor, Robert Thielke, Jonathon Payne, Nathaniel Gonzalez, Jose G. Conde, Research electronic data capture (REDCap) - A metadata-driven methodology and workflow process for providing translational research informatics support, J Biomed Inform. 2009 Apr;42(2):377-81.

Link to article: http://www.sciencedirect.com/science/article/pii/S1532046408001226

General Variables

Variable	Pseudocode	Format	Label
[W]tstdat[T]		MMDDYY10.	CTP-H: Date of Testing

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asstans1[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 3+6 (9)
[W]asstans2[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 5+3 (8)
[W]asstans3[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 7+6 (13)
[W]asstans4[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 3+5 (8)
[W]asstans5[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 8+4 (12)
[W]asstans6[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 2+8 (10)
[W]asstans7[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 9+7 (16)
[W]asstans8[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 2+4 (6)
[W]asstans9[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 9+5 (14)
[W]asstans10[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 7+2 (9)
[W]asstans11[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 9+8 (17)
[W]asstans12[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 4+7 (11)
[W]asstans13[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 2+5 (7)
[W]asstans14[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 3+9 (12)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asstans15[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 16+7 (23)
[W]asstans16[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 3+18 (21)
[W]asstans17[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 9+15 (24)
[W]asstans18[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 17+4 (21)
[W]asstans19[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 6+19 (25)
[W]asstans20[T]			CTP-H: Addition Strategy - Strategic Portion - Childs Answer: 14+8 (22)
[W]asddans1[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 13+24 (37)
[W]asddans2[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 17+75 (92)
[W]asddans3[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 26+15 (41)
[W]asddans4[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 13+17 (30)
[W]asddans5[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 62+27 (89)
[W]asddans6[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 25+33 (58)
[W]asddans7[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 24+18 (42)
[W]asddans8[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 23+38 (61)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asddans9[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 65+28 (93)
[W]asddans10[T]			CTP-H: Addition Strategy - Double Digit - Childs Answer: 38+36 (74)
[W]asstcor1[T]		1 = "Correct" 0 = "Incorrect"	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 3+6 (9)
[W]asstcor2[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 5+3 (8)
[W]asstcor3[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 7+6 (13)
[W]asstcor4[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 3+5 (8)
[W]asstcor5[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 8+4 (12)
[W]asstcor6[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 2+8 (10)
[W]asstcor7[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 9+7 (16)
[W]asstcor8[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 2+4 (6)
[W]asstcor9[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 9+5 (14)
[W]asstcor10[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 7+2 (9)
[W]asstcor11[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 9+8 (17)
[W]asstcor12[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 4+7 (11)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asstcor13[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 2+5 (7)
[W]asstcor14[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 3+9 (12)
[W]asstcor15[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 16+7 (23)
[W]asstcor16[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 3+18 (21)
[W]asstcor17[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 9+15 (24)
[W]asstcor18[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 17+4 (21)
[W]asstcor19[T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 6+19 (25)
[W]asstcor20 [T]		(same)	CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: 14+8 (22)
[W]asddcor1[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 13+24 (37)
[W]asddcor2[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 17+75 (92)
[W]asddcor3[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 26+15 (41)
[W]asddcor4[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 13+17 (30)
[W]asddcor5[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 62+27 (89)
[W]asddcor6[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 25+33 (58)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asddcor7[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 24+18 (42)
[W]asddcor8[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 23+38 (61)
[W]asddcor9[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 65+28 (93)
[W]asddcor10[T]		(same)	CTP-H: Addition Strategy - Double Digit - Answered Correctly?: 38+36 (74)
[W]aspstr1[T]		1 = "Counting Fingers Min" 2 = "Counting Fingers Max" 3 = "Counting Fingers Sum" 4 = "Fingering" 5 = "Verbal Counting Min" 6 = "Verbal Counting Max" 7 = "Verbal Counting Sum" 8 = "Count by #" 9 = "Retrieval" 10 = "Decomposition" 11 = "Multiply" 0 = "Other / Mixed"	CTP-H: Addition Strategy - Type of Strategy Used: 3+6 (9)
[W]aspstr2[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 5+3 (8)
[W]aspstr3[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 7+6 (13)
[W]aspstr4[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 3+5 (8)
[W]aspstr5[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 8+4 (12)
[W]aspstr6[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 2+8 (10)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]aspstr7[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 9+7 (16)
[W]aspstr8[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 2+4 (6)
[W]aspstr9[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 9+5 (14)
[W]aspstr10[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 7+2 (9)
[W]aspstr11[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 9+8 (17)
[W]aspstr12[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 4+7 (11)
[W]aspstr13[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 2+5 (7)
[W]aspstr14[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 3+9 (12)
[W]aspstr15[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 16+7 (23)
[W]aspstr16[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 3+18 (21)
[W]aspstr17[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 9+15 (24)
[W]aspstr18[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 17+4 (21)
[W]aspstr19[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 6+19 (25)
[W]aspstr20[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 14+8 (22)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asddstr1[T]		1 = "Counting Fingers Min" 2 = "Counting Fingers Max" 3 = "Counting Fingers Sum" 4 = "Fingering" 5 = "Verbal Counting Min" 6 = "Verbal Counting Max" 7 = "Verbal Counting Sum" 8 = "Count by #" 9 = "Retrieval" 10 = "Decomposition" 11 = "Multiply" 12 = “Algorithm” 13 = “Sequential” 14 = “Combining Units” 15 = “Compensating” 0 = "Other / Mixed"	CTP-H: Addition Strategy - Type of Strategy Used: 13+24 (37)
[W]asddstr2[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 17+75 (92)
[W]asddstr3[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 26+15 (41)
[W]asddstr4[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 13+17 (30)
[W]asddstr5[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 62+27 (89)
[W]asddstr6[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 25+33 (58)
[W]asddstr7[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 24+18 (42)
[W]asddstr8[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 23+38 (61)
[W]asddstr9[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 65+28 (93)
[W]asddstr10[T]		(same)	CTP-H: Addition Strategy - Type of Strategy Used: 38+36 (74)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asstrtm[T]	= mean of ASSTRT for Strategic items		CTP-H: Addition Strategy - Strategic Portion - Overall Mean RT
[W]asddrtm[T]	= mean of ASDDRT for Double Digit items		CTP-H: Addition Strategy – Double Digit - Overall Mean RT
[W]asstcorn[T]	= N of Strategic items where ASSTCOR = 1 and ASSTRT exists		CTP-H: Addition Strategy - Strategic Portion - # Correct Responses
[W]asddcorn[T]	= N of Double Digit items if ASFRCOR = 1 and ASFRRT exists		CTP-H: Addition Strategy - Double Digit - # Correct Responses
[W]asstcorrtm[T]	= mean of ASSTRT if ASSTCOR = 1		CTP-H: Addition Strategy - Strategic Portion - Mean RT of Correct Responses
[W]asfrcorrtm[T]	= mean of ASFRRT if ASFRCOR = 1		CTP-H: Addition Strategy - Forced Retrieval - Mean RT of Correct Responses
[W]asSTSRT[T]	= sum of ASSTSRT for Simple Strategic items (1-14)		CTP-H: Addition Strategy - Strategic Portion - Simple Items - Total RT
[W]asSTCRT[T]	= sum of ASSTSRT for Complex Strategic items (15-20)		CTP-H: Addition Strategy - Strategic Portion - Complex Items - Total RT
[W]asddrt[T]			CTP-H: Addition Strategy - Double Digit - Total Reaction Time
[W]asSTSRTM[T]	= mean of ASSTSRT for Simple Strategic items (1-14)		CTP-H: Addition Strategy - Strategic Portion - Simple Items - Mean RT
[W]asSTCRTM[T]	= mean of ASSTSRT for Complex Strategic items (15-20)		CTP-H: Addition Strategy - Strategic Portion - Complex Items - Mean RT
[W]asSTSCRT[T]	= sum of ASSTSRT for Simple Strategic items (1-14) if ASSTCOR =1		CTP-H: Addition Strategy - Strategic Portion - Simple Items - Total RT of Correct Items
[W]asSTCCRT[T]	= sum of ASSTSRT for Complex Strategic items (15-20) if ASSTCOR=1		CTP-H: Addition Strategy - Strategic Portion - Complex Items - Total RT of Correct Items

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asddcrt[T]			CTP-H: Addition Strategy - Double Digit - Total Reaction Time of Correct Items
[W]asSTSCRTM[T]	= mean of ASSTSRT for Simple Strategic items (1-14) if ASSTCOR =1		CTP-H: Addition Strategy - Strategic Portion - Simple Items - Mean RT of Correct Items
[W]asSTCCRTM[T]	= mean of ASSTSRT for Complex Strategic items (15-20) if ASSTCOR=1		CTP-H: Addition Strategy - Strategic Portion - Complex Items - Mean RT of Correct Items
[W]asddcrtm[T]			CTP-H: Addition Strategy - Double Digit - Mean Reaction Time of Correct Items
[W]asSUMinN[T]	= N of items if ASPSTR = 1 or 5		CTP-H: Addition Strategy - Strategy Use – Strategic Portion - # Items Using MIN Strategy
[W]asSUSumN[T]	= N of items if ASPSTR = 3 or 7		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Using SUM Strategy
[W]asSUCfN[T]	= N of items if ASPSTR = 1 or 2 or 3		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Using COUNTING FINGERS Strategy
[W]asSUMaxN[T]	= N of items if ASPSTR = 2 or 6		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Using MAX Strategy
[W]asSUFN[T]	= N of items if ASPSTR = 4		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Using FING Strategy
[W]asSUVcN[T]	= N of items if ASPSTR = 5 or 6 or 7		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Using VERBAL COUNTING Strategy
[W]asSUCbnN[T]	= N of items if ASPSTR = 8		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Using COUNT BY NUMBER Strategy
[W]asSURN[T]	= N of items if ASPSTR = 9		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Using RETRIEVAL Strategy
[W]asSUDN[T]	= N of items if ASPSTR = 10		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Using DECOMPOSITION Strategy

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asSUMinTC[T]	= N of items if ASPSTR = 1 or 5 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Answered Correctly Using MIN Strategy
[W]asSUSumTC[T]	= N of items if ASPSTR = 3 or 7 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Answered Correctly Using SUM Strategy
[W]asSUCfTC[T]	= N of items if ASPSTR = 1 or 2 or 3 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Answered Correctly Using COUNTING FINGERS Strategy
[W]asSUMaxTC[T]	= N of items if ASPSTR = 2 or 6 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Answered Correctly Using MAX Strategy
[W]asSUFTC[T]	= N of items if ASPSTR = 4 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Answered Correctly Using FING Strategy
[W]asSUVcTC[T]	= N of items if ASPSTR = 5 or 6 or 7 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Answered Correctly Using VERBAL COUNTING Strategy
[W]asSUCbnTC[T]	= N of items if ASPSTR = 8 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Answered Correctly Using COUNT BY NUMBER Strategy
[W]asSURTC[T]	= N of items if ASPSTR = 9 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Answered Correctly Using RETRIEVAL Strategy
[W]asSUDTC[T]	= N of items if ASPSTR = 10 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Strategic Portion - # Items Answered Correctly Using DECOMPOSITION Strategy
[W]asSSUMinN[T]	= N of Simple Strategic items (1-14) if ASPSTR = 1 or 5		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Using MIN Strategy
[W]asSSUSumN[T]	= N of Simple Strategic items (1-14) if ASPSTR = 3 or 7		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Using SUM Strategy
[W]asSSUCfN[T]	= N of Simple Strategic items (1-14) if ASPSTR = 1 or 2 or 3		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Using COUNTING FINGERS Strategy
[W]asSSUMaxN[T]	= N of Simple Strategic items (1-14) if ASPSTR = 2 or 6		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Using MAX Strategy
[W]asSSUFN[T]	= N of Simple Strategic items (1-14) if ASPSTR = 4		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Using FING Strategy

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asSSUVcN[T]	= N of Simple Strategic items (1-14) if ASPSTR = 5 or 6 or 7		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Using VERBAL COUNTING Strategy
[W]asSSUCbnN[T]	= N of Simple Strategic items (1-14) if ASPSTR = 8		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Using COUNT BY NUMBER Strategy
[W]asSSURN[T]	= N of Simple Strategic items (1-14) if ASPSTR = 9		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Using RETRIEVAL Strategy
[W]asSSUDN[T]	= N of Simple Strategic items (1-14) if ASPSTR = 10		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Using DECOMPOSITION Strategy
[W]asSSUMinTC[T]	= N of Simple Strategic items (1-14) if ASPSTR = 1 or 5 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Answered Correctly Using MIN Strategy
[W]asSSUSumTC[T]	= N of Simple Strategic items (1-14) if ASPSTR = 3 or 7 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Answered Correctly Using SUM Strategy
[W]asSSUCfTC[T]	= N of Simple Strategic items (1-14) if ASPSTR = 1 or 2 or 3 and ASSTCOR= 1		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Answered Correctly Using COUNTING FINGERS Strategy
[W]asSSUMaxTC[T]	= N of Simple Strategic items (1-14) if ASPSTR = 2 or 6 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Answered Correctly Using MAX Strategy
[W]asSSUFTC[T]	= N of Simple Strategic items (1-14) if ASPSTR = 4 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Answered Correctly Using FING Strategy
[W]asSSUVcTC[T]	= N of Simple Strategic items (1-14) if ASPSTR = 5 or 6 or 7 and ASSTCOR= 1		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Answered Correctly Using VERBAL COUNTING Strategy
[W]asSSUCbnTC[T]	= N of Simple Strategic items (1-14) if ASPSTR = 8 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Answered Correctly Using COUNT BY NUMBER Strategy
[W]asSSURTC[T]	= N of Simple Strategic items (1-14) if ASPSTR = 9 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Answered Correctly Using RETRIEVAL Strategy

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asSSUDTC[T]	= N of Simple Strategic items (1-14) if ASPSTR = 10 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Simple Items - # Items Answered Correctly Using DECOMPOSITION Strategy
[W]asCSUMinN[T]	= N of Complex Strategic items(15-20) if ASPSTR = 1 or 5		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Using MIN Strategy
[W]asCSUSumN[T]	= N of Complex Strategic items(15-20) if ASPSTR = 3 or 7		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Using SUM Strategy
[W]asCSUCfN[T]	= N of Complex Strategic items(15-20) if ASPSTR = 1 or 2 or 3		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Using COUNTING FINGERS Strategy
[W]asCSUMaxN[T]	= N of Complex Strategic items(15-20) if ASPSTR = 2 or 6		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Using MAX Strategy
[W]asCSUFN[T]	= N of Complex Strategic items(15-20) if ASPSTR = 4		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Using FING Strategy
[W]asCSUVcN[T]	= N of Complex Strategic items(15-20) if ASPSTR = 5 or 6 or 7		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Using VERBAL COUNTING Strategy
[W]asCSUCbnN[T]	= N of Complex Strategic items(15-20) if ASPSTR = 8		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Using COUNT BY NUMBER Strategy
[W]asCSURN[T]	= N of Complex Strategic items(15-20) if ASPSTR = 9		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Using RETRIEVAL Strategy
[W]asCSUDN[T]	= N of Complex Strategic items(15-20) if ASPSTR = 10		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Using DECOMPOSITION Strategy
[W]asCSUMinTC[T]	= N of Complex Strategic items(15-20) if ASPSTR = 1 or 5 and ASSTCOR =1		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Answered Correctly Using MIN Strategy
[W]asCSUSumTC[T]	= N of Complex Strategic items(15-20) if ASPSTR = 3 or 7 and ASSTCOR =1		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Answered Correctly Using SUM Strategy
[W]asCSUCfTC[T]	= N of Complex Strategic items(15-20) if ASPSTR = 1 or 2 or 3 and ASSTCOR= 1		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Answered Correctly Using COUNTING FINGERS Strategy

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asCSUMaxTC[T]	= N of Complex Strategic items(15-20) if ASPSTR = 2 or 6 and ASSTCOR =1		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Answered Correctly Using MAX Strategy
[W]asCSUFTC[T]	= N of Complex Strategic items(15-20) if ASPSTR = 4 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Answered Correctly Using FING Strategy
[W]asCSUVcTC[T]	= N of Complex Strategic items(15-20) if ASPSTR = 5 or 6 or 7 and ASSTCOR= 1		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Answered Correctly Using VERBAL COUNTING Strategy
[W]asCSUCbnTC[T]	= N of Complex Strategic items(15-20) if ASPSTR = 8 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Answered Correctly Using COUNT BY NUMBER Strategy
[W]asCSURTC[T]	= N of Complex Strategic items(15-20) if ASPSTR = 9 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Answered Correctly Using RETRIEVAL Strategy
[W]asCSUDTC[T]	= N of Complex Strategic items(15-20) if ASPSTR = 10 and ASSTCOR = 1		CTP-H: Addition Strategy - Strategy Use - Complex Items - # Items Answered Correctly Using DECOMPOSITION Strategy
[W]asddsualgn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using ALGORITHM Strategy
[W]asddsualgtc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using ALGORITHM Strategy
[W]asddsucbnn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using COUNT BY NUMBER Strategy
[W]asddsucbntc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using COUNT BY NUMBER Strategy
[W]asddsucfn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using COUNTING FINGERS Strategy
[W]asddsucftc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using COUNTING FINGERS Strategy

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asddsucpn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using COMPENSATING Strategy
[W]asddsucptc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using COMPENSATING Strategy
[W]asddsucun[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using COMBINING UNITS Strategy
[W]asddsucutc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using COMBINING UNITS Strategy
[W]asddsudn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using DECOMPOSITION Strategy
[W]asddsudtc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using DECOMPOSITION Strategy
[W]asddsufn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using FING Strategy
[W]asddsuftc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using FING Strategy
[W]asddsumaxn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using MAX Strategy
[W]asddsumaxtc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using MAX Strategy
[W]asddsuminn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using MIN Strategy
[W]asddsumintc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using MIN Strategy
[W]asddsurn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using RETRIEVAL Strategy
[W]asddsurtc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using RETRIEVAL Strategy

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asddsuseqn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using SEQUENTIAL Strategy
[W]asddsuseqtc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using SEQUENTIAL Strategy
[W]asddsusumn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using SUM Strategy
[W]asddsusumtc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using SUM Strategy
[W]asddsuvcn[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Using VERBAL COUNTING Strategy
[W]asddsuvctc[T]			CTP-H: Addition Strategy - Strategy Use - Double Digit Items - # Items Answered Correctly Using VERBAL COUNTING Strategy
[W]asSTAC[T]	= mean of ASSTCOR for Strategic items completed		CTP-H: Addition Strategy - Strategic Portion - Accuracy
[W]asMA[T]	N of Strategic items if ASSTCOR = 1 and ASPSTR = 9 or 10 = missing if *any* test items do not have a value for ASSTCOR or ASPSTR		CTP-H: Addition Strategy - Strategic Portion - Memory Accuracy (Geary, et al, 2007)
[W]asMAS[T]	N of Simple Strategic items (1-14) if ASSTCOR = 1 and ASPSTR = 9 or 10 = missing if any test items do not have a value for ASSTCOR or ASPSTR		CTP-H: Addition Strategy - Strategic Portion - Simple Items - Memory Accuracy (Geary, et al, 2007)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asMAC[T]	N of Complex Strategic items (15-20) if ASSTCOR=1 and ASPSTR= 9 or 10 = missing if any test items do not have a value for ASSTCOR or ASPSTR		CTP-H: Addition Strategy - Strategic Portion - Complex Items - Memory Accuracy (Geary, et al, 2007)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asBU[T]	= 0 minus [# Retrieval Errors] if [# Retrieval Errors] > [# Correct Fingers or Verbal] = (2 * [# Correct Min]) plus [# Correct Sum or Max] minus [# Counting Errors] if [# Retrieval Errors] < [# Correct Fingers or Verbal] = missing if [# Retrieval Errors] = [#Correct Fingers or Verbal] = missing if any test items do not have a value for ASSTCOR or ASPSTR (# Retrieval Errors = N of items if ASPSTR=9 and ASSTCOR=1) (# Correct Fingers or Verbal = N of items if ASPSTR=1 2 3 5 6 or 7 and ASSTCOR=1) (# Correct Min = N of items if ASPSTR=1 or 5 and ASSTCOR=1) (# Correct Sum or Max = N of items if ASPSTR=2 3 6 or 7 and ASSTCOR=1) (# Counting Errors = N items if ASPSTR=1 2 3 5 6 or 7 and ASSTCOR=0)		CTP-H: Addition Strategy - Strategic Portion - Backup (Geary, et al, 2007)

Addition Strategy

Variable	Pseudocode	Format	Label
[W]asBUS[T]	same as ASBU but using only Simple Strategic items (1-14) for calculations		CTP-H: Addition Strategy - Strategic Portion - Simple Items - Backup (Geary, et al, 2007)
[W]asBUC[T]	same as ASBU but using only Complex Strategic items (15-20) for calculations		CTP-H: Addition Strategy - Strategic Portion - Complex Items - Backup (Geary, et al, 2007)
[W]ASSTCORTH[T]	(coded in MPlus)		CTP-H: Addition Strategy - Strategic Portion - Answered Correctly?: Theta Score

CELF (Clinical Evaluation of Language Fundamentals) – version 4

Variable	Pseudocode	Format	Label
[W]USPRW[T]			CTP-H: CELF Understanding Spoken Paragraphs - Total Raw (only includes section for childs age)
[W]USPST[T]			CTP-H: CELF Understanding Spoken Paragraphs – Standardized
n[W]USPRW[T]			CTP-H: Residualized CELF Understanding Spoken Paragraphs - Total Raw (only includes section for childs age)

Colorado Perceptual Speed

Variable	Pseudocode	Format	Label
[W]cpsatc[T]			CTP-H: Correct Raw - A
[W]cpsati[T]			CTP-H: Incorrect – A
[W]cpsatr[T]			CTP-H: Tester Rating – A
[W]cpsbtc[T]			CTP-H: Correct Raw - B
[W]cpsbti[T]			CTP-H: Incorrect – B
[W]cpsbtr[T]			CTP-H: Tester Rating – B
[W]cpsctc[T]			CTP-H: Correct Raw - C
[W]cpscti[T]			CTP-H: Incorrect – C
[W]cpsctr[T]			CTP-H: Tester Rating - C

CTOPP (Comprehensive Test of Phonological Processing)

Variable	Pseudocode	Format	Label
[W]nwrrw[T]			CTP-H: CTOPP Nonword Repetition : Total Score Raw
[W]nwrst[T]			CTP-H: CTOPP Nonword Repetition – Standardized Score
[W]rnumrw[T]			CTP-H: Rapid Digit Naming - Total Time Raw
[W]rnumer[T]			CTP-H: Rapid Digit Naming Errors - Hand Entered Raw
[W]rnumst[T]			CTP-H: Rapid Digit Naming - Standardized Score
[W]rletrw[T]			CTP-H: Rapid Letter Naming - Total Time Raw
[W]rleter[T]			CTP-H: Rapid Letter Naming Errors - Hand Entered Raw
[W]rletst[T]			CTP-H: Rapid Letter Naming - Standardized Score
[W]ransum[T]	= ((RLETRW+RNUMRW) / 2) * -1		CTP-H: Mean of Rapid Letter and Rapid Number Naming Scores - Negative Scale
n[W]ransum[T]	= RANSUM residualized for age, age squared, and sex		CTP-H: Residualized Mean of Rapid Letter and Rapid Number Naming Scores - Negative Scale

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmtestdate[T]		MM/DD/YY	CTP-H: Fast Math: Test Date
[W]fmprac1oe[T]			CTP-H: Fast Math Easy Grouped Mult a Practice: # Operation Errors
[W]fmprac2oe[T]			CTP-H: Fast Math Easy Grouped Add Practice: # Operation Errors
[W]fmprac3oe[T]			CTP-H: Fast Math Hard Grouped Mult Practice: # Operation Errors
[W]fmprac4oe[T]			CTP-H: Fast Math Hard Grouped Add Practice: # Operation Errors
[W]fmprac5oe[T]			CTP-H: Fast Math Easy Mixed Mult Practice: # Operation Errors
[W]fmprac6oe[T]			CTP-H: Fast Math Easy Mixed Add Practice: # Operation Errors
[W]fmprac7oe[T]			CTP-H: Fast Math Hard Mixed Mult Practice: # Operation Errors
[W]fmprac8oe[T]			CTP-H: Fast Math Hard Mixed Add Practice: # Operation Errors
[W]fmprac9oe[T]			CTP-H: Fast Math Easy Grouped Mult b Practice: # Operation Errors
[W]fmpractoe[T]			CTP-H: Fast Math Practice: Total # Operation Errors
[W]fmrtdmg[T]			CTP-H: Fast Math: Response Time Difference, Mixed vs. Grouped
[W]fmrtdhe[T]			CTP-H: Fast Math: Response Time Difference, Hard vs. Easy
[W]fmrtdax[T]			CTP-H: Fast Math: Response Time Difference, Add vs. Multiply
[W]fm1at[T]			CTP-H: Fast Math Easy Grouped Mult a: # Attempted
[W]fm2at[T]			CTP-H: Fast Math Easy Grouped Add: # Attempted
[W]fm3at[T]			CTP-H: Fast Math Hard Grouped Mult: # Attempted
[W]fm4at[T]			CTP-H: Fast Math Hard Grouped Add: # Attempted
[W]fm5at[T]			CTP-H: Fast Math Easy Mixed Mult: # Attempted
[W]fm6at[T]			CTP-H: Fast Math Easy Mixed Add: # Attempted
[W]fm7at[T]			CTP-H: Fast Math Hard Mixed Mult: # Attepmted
[W]fm8at[T]			CTP-H: Fast Math Hard Mixed Add: # Attempted

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fm9at[T]			CTP-H: Fast Math Easy Grouped Mult b: # Attempted
[W]fmtat[T]			CTP-H: Fast Math: Total # Attempted
[W]fmaat[T]			CTP-H: Fast Math: Average # Attempted
[W]fm1tc[T]			CTP-H: Fast Math Easy Grouped Mult a: # Correct
[W]fm2tc[T]			CTP-H: Fast Math Easy Grouped Add: # Correct
[W]fm3tc[T]			CTP-H: Fast Math Hard Grouped Mult: # Correct
[W]fm4tc[T]			CTP-H: Fast Math Hard Grouped Add: # Correct
[W]fm5tc[T]			CTP-H: Fast Math Easy Mixed Mult: # Correct
[W]fm6tc[T]			CTP-H: Fast Math Easy Mixed Add: # Correct
[W]fm7tc[T]			CTP-H: Fast Math Hard Mixed Mult: # Correct
[W]fm8tc[T]			CTP-H: Fast Math Hard Mixed Add: # Correct
[W]fm9tc[T]			CTP-H: Fast Math Easy Grouped Mult b: # Correct
[W]fmttc[T]			CTP-H: Fast Math: Total # Correct
[W]fmatc[T]			CTP-H: Fast Math: Average # Correct
[W]fm1te[T]			CTP-H: Fast Math Easy Grouped Mult a: # Errors
[W]fm2te[T]			CTP-H: Fast Math Easy Grouped Add: # Errors
[W]fm3te[T]			CTP-H: Fast Math Hard Grouped Mult: # Errors
[W]fm4te[T]			CTP-H: Fast Math Hard Grouped Add: # Errors
[W]fm5te[T]			CTP-H: Fast Math Easy Mixed Mult: # Errors
[W]fm6te[T]			CTP-H: Fast Math Easy Mixed Add: # Errors
[W]fm7te[T]			CTP-H: Fast Math Hard Mixed Mult: # Errors
[W]fm8te[T]			CTP-H: Fast Math Hard Mixed Add: # Errors

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fm9te[T]			CTP-H: Fast Math Easy Grouped Mult b: # Errors
[W]fmtte[T]			CTP-H: Fast Math: Total # Errors
[W]fmate[T]			CTP-H: Fast Math: Average # Errors
[W]fm1sc[T]			CTP-H: Fast Math Easy Grouped Mult a: # Self Corrections
[W]fm2sc[T]			CTP-H: Fast Math Easy Grouped Add: # Self Corrections
[W]fm3sc[T]			CTP-H: Fast Math Hard Grouped Mult: # Self Corrections
[W]fm4sc[T]			CTP-H: Fast Math Hard Grouped Add: # Self Corrections
[W]fm5sc[T]			CTP-H: Fast Math Easy Mixed Mult: # Self Corrections
[W]fm6sc[T]			CTP-H: Fast Math Easy Mixed Add: # Self Corrections
[W]fm7sc[T]			CTP-H: Fast Math Hard Mixed Mult: # Self Corrections
[W]fm8sc[T]			CTP-H: Fast Math Hard Mixed Add: # Self Corrections
[W]fm9sc[T]			CTP-H: Fast Math Easy Grouped Mult b: # Self Corrections
[W]fmtsc[T]			CTP-H: Fast Math: Total # Self Corrections
[W]fmasc[T]			CTP-H: Fast Math: Average # Self Corrections
[W]fm1sk[T]			CTP-H: Fast Math Easy Grouped Mult a: # Skips
[W]fm2sk[T]			CTP-H: Fast Math Easy Grouped Add: # Skips
[W]fm3sk[T]			CTP-H: Fast Math Hard Grouped Mult: # Skips
[W]fm4sk[T]			CTP-H: Fast Math Hard Grouped Add: # Skips
[W]fm5sk[T]			CTP-H: Fast Math Easy Mixed Mult: # Skips
[W]fm6sk[T]			CTP-H: Fast Math Easy Mixed Add: # Skips
[W]fm7sk[T]			CTP-H: Fast Math Hard Mixed Mult: # Skips
[W]fm8sk[T]			CTP-H: Fast Math Hard Mixed Add: # Skips

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fm9sk[T]			CTP-H: Fast Math Easy Grouped Mult b: # Skips
[W]fmtsk[T]			CTP-H: Fast Math: Total # Skips
[W]fmask[T]			CTP-H: Fast Math: Average # Skips
[W]fm1rt[T]			CTP-H: Fast Math Easy Grouped Mult a: Reaction Time
[W]fm2rt[T]			CTP-H: Fast Math Easy Grouped Add: Reaction Time
[W]fm3rt[T]			CTP-H: Fast Math Hard Grouped Mult: Reaction Time
[W]fm4rt[T]			CTP-H: Fast Math Hard Grouped Add: Reaction Time
[W]fm5rt[T]			CTP-H: Fast Math Easy Mixed Mult: Reaction Time
[W]fm6rt[T]			CTP-H: Fast Math Easy Mixed Add: Reaction Time
[W]fm7rt[T]			CTP-H: Fast Math Hard Mixed Mult: Reaction Time
[W]fm8rt[T]			CTP-H: Fast Math Hard Mixed Add: Reaction Time
[W]fm9rt[T]			CTP-H: Fast Math Easy Grouped Mult b: Reaction Time
[W]fmart[T]			CTP-H: Fast Math: Average Reaction Time
[W]fm1cf[T]			CTP-H: Fast Math Easy Grouped Mult a: Counted Fingers
[W]fm2cf[T]			CTP-H: Fast Math Easy Grouped Add: Counted Fingers
[W]fm3cf[T]			CTP-H: Fast Math Hard Grouped Mult: Counted Fingers
[W]fm4cf[T]			CTP-H: Fast Math Hard Grouped Add: Counted Fingers
[W]fm5cf[T]			CTP-H: Fast Math Easy Mixed Mult: Counted Fingers
[W]fm6cf[T]			CTP-H: Fast Math Easy Mixed Add: Counted Fingers
[W]fm7cf[T]			CTP-H: Fast Math Hard Mixed Mult: Counted Fingers
[W]fm8cf[T]			CTP-H: Fast Math Hard Mixed Add: Counted Fingers
[W]fm9cf[T]			CTP-H: Fast Math Easy Grouped Mult b: Counted Fingers

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmtcf[T]			CTP-H: Fast Math: Total Counted Fingers
[W]fmacf[T]			CTP-H: Fast Math: Average Counted Fingers
[W]fm1re[T]			CTP-H: Fast Math Easy Grouped Mult a: # Repeated Errors
[W]fm2re[T]			CTP-H: Fast Math Easy Grouped Add: # Repeated Errors
[W]fm3re[T]			CTP-H: Fast Math Hard Grouped Mult: # Repeated Errors
[W]fm4re[T]			CTP-H: Fast Math Hard Grouped Add: # Repeated Errors
[W]fm5re[T]			CTP-H: Fast Math Easy Mixed Mult: # Repeated Errors
[W]fm6re[T]			CTP-H: Fast Math Easy Mixed Add: # Repeated Errors
[W]fm7re[T]			CTP-H: Fast Math Hard Mixed Mult: # Repeated Errors
[W]fm8re[T]			CTP-H: Fast Math Hard Mixed Add: # Repeated Errors
[W]fm9re[T]			CTP-H: Fast Math Easy Grouped Mult b: # Repeated Errors
[W]fmtre[T]			CTP-H: Fast Math: Total # Repeated Errors
[W]fmare[T]			CTP-H: Fast Math: Average # Repeated Errors
[W]fm1pa[T]			CTP-H: Fast Math Easy Grouped Mult a: Percent Accuracy
[W]fm2pa[T]			CTP-H: Fast Math Easy Grouped Add: Percent Accuracy
[W]fm3pa[T]			CTP-H: Fast Math Hard Grouped Mult: Percent Accuracy
[W]fm4pa[T]			CTP-H: Fast Math Hard Grouped Add: Percent Accuracy
[W]fm5pa[T]			CTP-H: Fast Math Easy Mixed Mult: Percent Accuracy
[W]fm6pa[T]			CTP-H: Fast Math Easy Mixed Add: Percent Accuracy
[W]fm7pa[T]			CTP-H: Fast Math Hard Mixed Mult: Percent Accuracy
[W]fm8pa[T]			CTP-H: Fast Math Hard Mixed Add: Percent Accuracy
[W]fm9pa[T]			CTP-H: Fast Math Easy Grouped Mult b: Percent Accuracy

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmtpa[T]			CTP-H: Fast Math: Total Percent Accuracy
[W]fm1on[T]			CTP-H: Fast Math Easy Grouped Mult a: Operation Error
[W]fm1od[T]			CTP-H: Fast Math Easy Grouped Mult a: Operand Error
[W]fm1ta[T]			CTP-H: Fast Math Easy Grouped Mult a: Table Error
[W]fm1rg[T]			CTP-H: Fast Math Easy Grouped Mult a: Regrouping Error
[W]fm1nt[T]			CTP-H: Fast Math Easy Grouped Mult a: Non-Table Error
[W]fm1im[T]			CTP-H: Fast Math Easy Grouped Mult a: Impossible Error
[W]fm2on[T]			CTP-H: Fast Math Easy Grouped Add: Operation Error
[W]fm2pr[T]			CTP-H: Fast Math Easy Grouped Add: Procedural Error
[W]fm2do[T]			CTP-H: Fast Math Easy Grouped Add: Doubling Error
[W]fm2pl[T]			CTP-H: Fast Math Easy Grouped Add: Plus/Minus Error
[W]fm2tp[T]			CTP-H: Fast Math Easy Grouped Add: TPC Error
[W]fm2na[T]			CTP-H: Fast Math Easy Grouped Add: NAATO Error
[W]fm2mo[T]			CTP-H: Fast Math Easy Grouped Add: Mixed Operation Error
[W]fm2un[T]			CTP-H: Fast Math Easy Grouped Add: Unknown Error
[W]fm2im[T]			CTP-H: Fast Math Easy Grouped Add: Impossible Error
[W]fm3on[T]			CTP-H: Fast Math Hard Grouped Mult: Operation Error
[W]fm3od[T]			CTP-H: Fast Math Hard Grouped Mult: Operand Error
[W]fm3ta[T]			CTP-H: Fast Math Hard Grouped Mult: Table Error
[W]fm3rg[T]			CTP-H: Fast Math Hard Grouped Mult: Regrouping Error
[W]fm3nt[T]			CTP-H: Fast Math Hard Grouped Mult: Non-Table Error
[W]fm3im[T]			CTP-H: Fast Math Hard Grouped Mult: Impossible Error

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fm4on[T]			CTP-H: Fast Math Hard Grouped Add: Operation Error
[W]fm4pr[T]			CTP-H: Fast Math Hard Grouped Add: Procedural Error
[W]fm4do[T]			CTP-H: Fast Math Hard Grouped Add: Doubling Error
[W]fm4pl[T]			CTP-H: Fast Math Hard Grouped Add: Plus/Minus Error
[W]fm4tp[T]			CTP-H: Fast Math Hard Grouped Add: TPC Error
[W]fm4na[T]			CTP-H: Fast Math Hard Grouped Add: NAATO Error
[W]fm4mo[T]			CTP-H: Fast Math Hard Grouped Add: Mixed Operation Error
[W]fm4un[T]			CTP-H: Fast Math Hard Grouped Add: Unknown Error
[W]fm4im[T]			CTP-H: Fast Math Hard Grouped Add: Impossible Error
[W]fm5on[T]			CTP-H: Fast Math Easy Mixed Mult: Operation Error
[W]fm5od[T]			CTP-H: Fast Math Easy Mixed Mult: Operand Error
[W]fm5ta[T]			CTP-H: Fast Math Easy Mixed Mult: Table Error
[W]fm5rg[T]			CTP-H: Fast Math Easy Mixed Mult: Regrouping Error
[W]fm5nt[T]			CTP-H: Fast Math Easy Mixed Mult: Non-Table Error
[W]fm5im[T]			CTP-H: Fast Math Easy Mixed Mult: Impossible Error
[W]fm6on[T]			CTP-H: Fast Math Easy Mixed Add: Operation Error
[W]fm6pr[T]			CTP-H: Fast Math Easy Mixed Add: Procedural Error
[W]fm6do[T]			CTP-H: Fast Math Easy Mixed Add: Doubling Error
[W]fm6pl[T]			CTP-H: Fast Math Easy Mixed Add: Plus/Minus Error
[W]fm6tp[T]			CTP-H: Fast Math Easy Mixed Add: TPC Error
[W]fm6na[T]			CTP-H: Fast Math Easy Mixed Add: NAATO Error
[W]fm6mo[T]			CTP-H: Fast Math Easy Mixed Add: Mixed Operation Error

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fm6un[T]			CTP-H: Fast Math Easy Mixed Add: Unknown Error
[W]fm6im[T]			CTP-H: Fast Math Easy Mixed Add: Impossible Error
[W]fm7on[T]			CTP-H: Fast Math Hard Mixed Mult: Operation Error
[W]fm7od[T]			CTP-H: Fast Math Hard Mixed Mult: Operand Error
[W]fm7ta[T]			CTP-H: Fast Math Hard Mixed Mult: Table Error
[W]fm7rg[T]			CTP-H: Fast Math Hard Mixed Mult: Regrouping Error
[W]fm7nt[T]			CTP-H: Fast Math Hard Mixed Mult: Non-Table Error
[W]fm7im[T]			CTP-H: Fast Math Hard Mixed Mult: Impossible Error
[W]fm8on[T]			CTP-H: Fast Math Hard Mixed Add: Operation Error
[W]fm8pr[T]			CTP-H: Fast Math Hard Mixed Add: Procedural Error
[W]fm8do[T]			CTP-H: Fast Math Hard Mixed Add: Doubling Error
[W]fm8pl[T]			CTP-H: Fast Math Hard Mixed Add: Plus/Minus Error
[W]fm8tp[T]			CTP-H: Fast Math Hard Mixed Add: TPC Error
[W]fm8na[T]			CTP-H: Fast Math Hard Mixed Add: NAATO Error
[W]fm8mo[T]			CTP-H: Fast Math Hard Mixed Add: Mixed Operation Error
[W]fm8un[T]			CTP-H: Fast Math Hard Mixed Add: Unknown Error
[W]fm8im[T]			CTP-H: Fast Math Hard Mixed Add: Impossible Error
[W]fm9on[T]			CTP-H: Fast Math Easy Grouped Mult b: Operation Error
[W]fm9od[T]			CTP-H: Fast Math Easy Grouped Mult b: Operand Error
[W]fm9ta[T]			CTP-H: Fast Math Easy Grouped Mult b: Table Error
[W]fm9rg[T]			CTP-H: Fast Math Easy Grouped Mult b: Regrouping Error
[W]fm9nt[T]			CTP-H: Fast Math Easy Grouped Mult b: Non-Table Error

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fm9im[T]			CTP-H: Fast Math Easy Grouped Mult b: Impossible Error
[W]fmontx[T]			CTP-H: Fast Math Summary: Total # Operation Errors on Mult items
[W]fmonax[T]			CTP-H: Fast Math Summary: Average # Operation Errors on Mult items per page
[W]fmonta[T]			CTP-H: Fast Math Summary: Total # Operation Errors on Add items
[W]fmonaa[T]			CTP-H: Fast Math Summary: Average # Operation Errors on Add items per page
[W]fmontg[T]			CTP-H: Fast Math Summary: Total # Operation Errors on Grouped items
[W]fmonag[T]			CTP-H: Fast Math Summary: Average # Operation Errors on Grouped items per page
[W]fmontm[T]			CTP-H: Fast Math Summary: Total # Operation Errors on Mixed items
[W]fmonam[T]			CTP-H: Fast Math Summary: Average # Operation Errors on Mixed items per page
[W]fmonte[T]			CTP-H: Fast Math Summary: Total # Operation Errors on Easy items
[W]fmonae[T]			CTP-H: Fast Math Summary: Average # Operation Errors on Easy items per page
[W]fmonth[T]			CTP-H: Fast Math Summary: Total # Operation Errors on Hard items
[W]fmonah[T]			CTP-H: Fast Math Summary: Average # Operation Errors on Hard items per page
[W]fmonsum[T]			CTP-H: Fast Math Summary: Total # Operation Errors
[W]fmonmean[T]			CTP-H: Fast Math Summary: Average # Operation Errors
[W]fmodtx[T]			CTP-H: Fast Math Summary: Total # Operand Errors on Mult Items
[W]fmodax[T]			CTP-H: Fast Math Summary: Average # Operand Errors on Mult Items per Page

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmodtg[T]			CTP-H: Fast Math Summary: Total # Operand Errors on Grouped Items
[W]fmodag[T]			CTP-H: Fast Math Summary: Average # Operand Errors on Grouped Items per Page
[W]fmodtm[T]			CTP-H: Fast Math Summary: Total # Operand Errors on Mixed Items
[W]fmodam[T]			CTP-H: Fast Math Summary: Average # Operand Errors on Mixed Items per Page
[W]fmodte[T]			CTP-H: Fast Math Summary: Total # Operand Errors on Easy Items
[W]fmodae[T]			CTP-H: Fast Math Summary: Average # Operand Errors on Easy Items per Page
[W]fmodth[T]			CTP-H: Fast Math Summary: Total # Operand Errors on Hard Items
[W]fmodah[T]			CTP-H: Fast Math Summary: Average # Operand Errors on Hard Items per Page
[W]fmodsum[T]			CTP-H: Fast Math Summary: Total # Operand Errors
[W]fmodmean[T]			CTP-H: Fast Math Summary: Average # Operand Errors
[W]fmtatx[T]			CTP-H: Fast Math Summary: Total # Table Errors on Mult Items
[W]fmtaax[T]			CTP-H: Fast Math Summary: Average # Table Errors on Mult Items per Page
[W]fmtatg[T]			CTP-H: Fast Math Summary: Total # Table Errors on Grouped Items
[W]fmtaag[T]			CTP-H: Fast Math Summary: Average # Table Errors on Grouped Items per Page
[W]fmtatm[T]			CTP-H: Fast Math Summary: Total # Table Errors on Mixed Items
[W]fmtaam[T]			CTP-H: Fast Math Summary: Average # Table Errors on Mixed Items per Page
[W]fmtate[T]			CTP-H: Fast Math Summary: Total # Table Errors on Easy Items

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmtaae[T]			CTP-H: Fast Math Summary: Average # Table Errors on Easy Items per Page
[W]fmtath[T]			CTP-H: Fast Math Summary: Total # Table Errors on Hard Items
[W]fmtaah[T]			CTP-H: Fast Math Summary: Average # Table Errors on Hard Items per Page
[W]fmtasum[T]			CTP-H: Fast Math Summary: Total # Table Errors
[W]fmtamean[T]			CTP-H: Fast Math Summary: Average # Table Errors
[W]fmrgtx[T]			CTP-H: Fast Math Summary: Total # Regrouping Errors on Mult Items
[W]fmrgax[T]			CTP-H: Fast Math Summary: Average # Regrouping Errors on Mult Items per Page
[W]fmrgtg[T]			CTP-H: Fast Math Summary: Total # Regrouping Errors on Grouped Items
[W]fmrgag[T]			CTP-H: Fast Math Summary: Average # Regrouping Errors on Grouped Items per Page
[W]fmrgtm[T]			CTP-H: Fast Math Summary: Total # Regrouping Errors on Mixed Items
[W]fmrgam[T]			CTP-H: Fast Math Summary: Average # Regrouping Errors on Mixed Items per Page
[W]fmrgte[T]			CTP-H: Fast Math Summary: Total # Regrouping Errors on Easy Items
[W]fmrgae[T]			CTP-H: Fast Math Summary: Average # Regrouping Errors on Easy Items per Page
[W]fmrgth[T]			CTP-H: Fast Math Summary: Total # Regrouping Errors on Hard Items
[W]fmrgah[T]			CTP-H: Fast Math Summary: Average # Regrouping Errors on Hard Items per Page
[W]fmrgsum[T]			CTP-H: Fast Math Summary: Total # Regrouping Errors
[W]fmrgmean[T]			CTP-H: Fast Math Summary: Average # Regrouping Errors

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmnttx[T]			CTP-H: Fast Math Summary: Total # Non-Table Errors on Mult Items
[W]fmntax[T]			CTP-H: Fast Math Summary: Average # Non-Table Errors on Mult Items per Page
[W]fmnttg[T]			CTP-H: Fast Math Summary: Total # Non-Table Errors on Grouped Items
[W]fmntag[T]			CTP-H: Fast Math Summary: Average # Non-Table Errors on Grouped Items per Page
[W]fmnttm[T]			CTP-H: Fast Math Summary: Total # Non-Table Errors on Mixed Items
[W]fmntam[T]			CTP-H: Fast Math Summary: Average # Non-Table Errors on Mixed Items per Page
[W]fmntte[T]			CTP-H: Fast Math Summary: Total # Non-Table Errors on Easy Items
[W]fmntae[T]			CTP-H: Fast Math Summary: Average # Non-Table Errors on Easy Items per Page
[W]fmntth[T]			CTP-H: Fast Math Summary: Total # Non-Table Errors on Hard Items
[W]fmntah[T]			CTP-H: Fast Math Summary: Average # Non-Table Errors on Hard Items per Page
[W]fmntsum[T]			CTP-H: Fast Math Summary: Total # Non-Table Errors
[W]fmntmean[T]			CTP-H: Fast Math Summary: Average # Non-Table Errors
[W]fmprta[T]			CTP-H: Fast Math Summary: Total # Procedural Errors on Add Items
[W]fmpraa[T]			CTP-H: Fast Math Summary: Average # Procedural Errors on Add Items per Page
[W]fmprtg[T]			CTP-H: Fast Math Summary: Total # Procedural Errors on Grouped Items
[W]fmprag[T]			CTP-H: Fast Math Summary: Average # Procedural Errors on Grouped Items per Page
[W]fmprtm[T]			CTP-H: Fast Math Summary: Total # Procedural Errors on Mixed Items

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmpram[T]			CTP-H: Fast Math Summary: Average # Procedural Errors on Mixed Items per Page
[W]fmprte[T]			CTP-H: Fast Math Summary: Total # Procedural Errors on Easy Items
[W]fmprae[T]			CTP-H: Fast Math Summary: Average # Procedural Errors on Easy Items per Page
[W]fmprth[T]			CTP-H: Fast Math Summary: Total # Procedural Errors on Hard Items
[W]fmprah[T]			CTP-H: Fast Math Summary: Average # Procedural Errors on Hard Items per Page
[W]fmprsum[T]			CTP-H: Fast Math Summary: Total # Procedural Errors
[W]fmprmean[T]			CTP-H: Fast Math Summary: Average # Procedural Errors
[W]fmdota[T]			CTP-H: Fast Math Summary: Total # Doubling Errors on Add Items
[W]fmdoaa[T]			CTP-H: Fast Math Summary: Average # Doubling Errors on Add Items per Page
[W]fmdotg[T]			CTP-H: Fast Math Summary: Total # Doubling Errors on Grouped Items
[W]fmdoag[T]			CTP-H: Fast Math Summary: Average # Doubling Errors on Grouped Items per Page
[W]fmdotm[T]			CTP-H: Fast Math Summary: Total # Doubling Errors on Mixed Items
[W]fmdoam[T]			CTP-H: Fast Math Summary: Average # Doubling Errors on Mixed Items per Page
[W]fmdote[T]			CTP-H: Fast Math Summary: Total # Doubling Errors on Easy Items
[W]fmdoae[T]			CTP-H: Fast Math Summary: Average # Doubling Errors on Easy Items per Page
[W]fmdoth[T]			CTP-H: Fast Math Summary: Total # Doubling Errors on Hard Items
[W]fmdoah[T]			CTP-H: Fast Math Summary: Average # Doubling Errors on Hard Items per Page

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmdosum[T]			CTP-H: Fast Math Summary: Total # Doubling Errors
[W]fmdomean[T]			CTP-H: Fast Math Summary: Average # Doubling Errors
[W]fmplta[T]			CTP-H: Fast Math Summary: Total # Plus/Minus Errors on Add Items
[W]fmplaa[T]			CTP-H: Fast Math Summary: Average # Plus/Minus Errors on Add Items per Page
[W]fmpltg[T]			CTP-H: Fast Math Summary: Total # Plus/Minus Errors on Grouped Items
[W]fmplag[T]			CTP-H: Fast Math Summary: Average # Plus/Minus Errors on Grouped Items per Page
[W]fmpltm[T]			CTP-H: Fast Math Summary: Total # Plus/Minus Errors on Mixed Items
[W]fmplam[T]			CTP-H: Fast Math Summary: Average # Plus/Minus Errors on Mixed Items per Page
[W]fmplte[T]			CTP-H: Fast Math Summary: Total # Plus/Minus Errors on Easy Items
[W]fmplae[T]			CTP-H: Fast Math Summary: Average # Plus/Minus Errors on Easy Items per Page
[W]fmplth[T]			CTP-H: Fast Math Summary: Total # Plus/Minus Errors on Hard Items
[W]fmplah[T]			CTP-H: Fast Math Summary: Average # Plus/Minus Errors on Hard Items per Page
[W]fmplsum[T]			CTP-H: Fast Math Summary: Total # Plus/Minus Errors
[W]fmplmean[T]			CTP-H: Fast Math Summary: Average # Plus/Minus Errors
[W]fmtpta[T]			CTP-H: Fast Math Summary: Total # TPC Errors on Add Items
[W]fmtpaa[T]			CTP-H: Fast Math Summary: Average # TPC Errors on Add Items per Page
[W]fmtptg[T]			CTP-H: Fast Math Summary: Total # TPC Errors on Grouped Items
[W]fmtpag[T]			CTP-H: Fast Math Summary: Average # TPC Errors on Grouped Items per Page

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmtptm[T]			CTP-H: Fast Math Summary: Total # TPC Errors on Mixed Items
[W]fmtpam[T]			CTP-H: Fast Math Summary: Average # TPC Errors on Mixed Items per Page
[W]fmtpte[T]			CTP-H: Fast Math Summary: Total # TPC Errors on Easy Items
[W]fmtpae[T]			CTP-H: Fast Math Summary: Average # TPC Errors on Easy Items per Page
[W]fmtpth[T]			CTP-H: Fast Math Summary: Total # TPC Errors on Hard Items
[W]fmtpah[T]			CTP-H: Fast Math Summary: Average # TPC Errors on Hard Items per Page
[W]fmtpsum[T]			CTP-H: Fast Math Summary: Total # TPC Errors
[W]fmtpmean[T]			CTP-H: Fast Math Summary: Average # TPC Errors
[W]fmnata[T]			CTP-H: Fast Math Summary: Total # NAATO Errors on Add Items
[W]fmnaaa[T]			CTP-H: Fast Math Summary: Average # NAATO Errors on Add Items per Page
[W]fmnatg[T]			CTP-H: Fast Math Summary: Total # NAATO Errors on Grouped Items
[W]fmnaag[T]			CTP-H: Fast Math Summary: Average # NAATO Errors on Grouped Items per Page
[W]fmnatm[T]			CTP-H: Fast Math Summary: Total # NAATO Errors on Mixed Items
[W]fmnaam[T]			CTP-H: Fast Math Summary: Average # NAATO Errors on Mixed Items per Page
[W]fmnate[T]			CTP-H: Fast Math Summary: Total # NAATO Errors on Easy Items
[W]fmnaae[T]			CTP-H: Fast Math Summary: Average # NAATO Errors on Easy Items per Page
[W]fmnath[T]			CTP-H: Fast Math Summary: Total # NAATO Errors on Hard Items
[W]fmnaah[T]			CTP-H: Fast Math Summary: Average # NAATO Errors on Hard Items per Page

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmnasum[T]			CTP-H: Fast Math Summary: Total # NAATO Errors
[W]fmnamean[T]			CTP-H: Fast Math Summary: Average # NAATO Errors
[W]fmmota[T]			CTP-H: Fast Math Summary: Total # Mixed Operation Errors on Add Items
[W]fmmoaa[T]			CTP-H: Fast Math Summary: Average # Mixed Operation Errors on Add Items per Page
[W]fmmotg[T]			CTP-H: Fast Math Summary: Total # Mixed Operation Errors on Grouped Items
[W]fmmoag[T]			CTP-H: Fast Math Summary: Average # Mixed Operation Errors on Grouped Items per Page
[W]fmmotm[T]			CTP-H: Fast Math Summary: Total # Mixed Operation Errors on Mixed Items
[W]fmmoam[T]			CTP-H: Fast Math Summary: Average # Mixed Operation Errors on Mixed Items per Page
[W]fmmote[T]			CTP-H: Fast Math Summary: Total # Mixed Operation Errors on Easy Items
[W]fmmoae[T]			CTP-H: Fast Math Summary: Average # Mixed Operation Errors on Easy Items per Page
[W]fmmoth[T]			CTP-H: Fast Math Summary: Total # Mixed Operation Errors on Hard Items
[W]fmmoah[T]			CTP-H: Fast Math Summary: Average # Mixed Operation Errors on Hard Items per Page
[W]fmmosum[T]			CTP-H: Fast Math Summary: Total # Mixed Operation Errors
[W]fmmomean[T]			CTP-H: Fast Math Summary: Average # Mixed Operation Errors
[W]fmunta[T]			CTP-H: Fast Math Summary: Total # Unknown Errors on Add Items
[W]fmunaa[T]			CTP-H: Fast Math Summary: Average # Unknown Errors on Add Items per Page
[W]fmuntg[T]			CTP-H: Fast Math Summary: Total # Unknown Errors on Grouped Items

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmunag[T]			CTP-H: Fast Math Summary: Average # Unknown Errors on Grouped Items per Page
[W]fmuntm[T]			CTP-H: Fast Math Summary: Total # Unknown Errors on Mixed Items
[W]fmunam[T]			CTP-H: Fast Math Summary: Average # Unknown Errors on Mixed Items per Page
[W]fmunte[T]			CTP-H: Fast Math Summary: Total # Unknown Errors on Easy Items
[W]fmunae[T]			CTP-H: Fast Math Summary: Average # Unknown Errors on Easy Items per Page
[W]fmunth[T]			CTP-H: Fast Math Summary: Total # Unknown Errors on Hard Items
[W]fmunah[T]			CTP-H: Fast Math Summary: Average # Unknown Errors on Hard Items per Page
[W]fmunsum[T]			CTP-H: Fast Math Summary: Total # Unknown Errors
[W]fmunmean[T]			CTP-H: Fast Math Summary: Average # Unknown Errors
[W]fmimtx[T]			CTP-H: Fast Math Summary: Total # Impossible Errors on Mult Items
[W]fmimax[T]			CTP-H: Fast Math Summary: Average # Impossible Errors on Mult Items per Page
[W]fmimta[T]			CTP-H: Fast Math Summary: Total # Impossible Errors on Add Items
[W]fmimaa[T]			CTP-H: Fast Math Summary: Average # Impossible Errors on Add Items per Page
[W]fmimtg[T]			CTP-H: Fast Math Summary: Total # Impossible Errors on Grouped Items
[W]fmimag[T]			CTP-H: Fast Math Summary: Average # Impossible Errors on Grouped Items per Page
[W]fmimtm[T]			CTP-H: Fast Math Summary: Total # Impossible Errors on Mixed Items
[W]fmimam[T]			CTP-H: Fast Math Summary: Average # Impossible Errors on Mixed Items per Page

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmimte[T]			CTP-H: Fast Math Summary: Total # Impossible Errors on Easy Items
[W]fmimae[T]			CTP-H: Fast Math Summary: Average # Impossible Errors on Easy Items per Page
[W]fmimth[T]			CTP-H: Fast Math Summary: Total # Impossible Errors on Hard Items
[W]fmimah[T]			CTP-H: Fast Math Summary: Average # Impossible Errors on Hard Items per Page
[W]fmimsum[T]			CTP-H: Fast Math Summary: Total # Impossible Errors
[W]fmimmean[T]			CTP-H: Fast Math Summary: Average # Impossible Errors
[W]fmattx[T]			CTP-H: Fast Math Summary: Total # Attempted on Mult Items
[W]fmatax[T]			CTP-H: Fast Math Summary: Average # Attempted on Mult Items per Page
[W]fmatta[T]			CTP-H: Fast Math Summary: Total # Attempted on Add Items
[W]fmataa[T]			CTP-H: Fast Math Summary: Average # Attempted on Add Items per Page
[W]fmattg[T]			CTP-H: Fast Math Summary: Total # Attempted on Grouped Items
[W]fmatag[T]			CTP-H: Fast Math Summary: Average # Attempted on Grouped Items per Page
[W]fmattm[T]			CTP-H: Fast Math Summary: Total # Attempted on Mixed Items
[W]fmatam[T]			CTP-H: Fast Math Summary: Average # Attempted on Mixed Items per Page
[W]fmatte[T]			CTP-H: Fast Math Summary: Total # Attempted on Easy Items
[W]fmatae[T]			CTP-H: Fast Math Summary: Average # Attempted on Easy Items per Page
[W]fmatth[T]			CTP-H: Fast Math Summary: Total # Attempted on Hard Items
[W]fmatah[T]			CTP-H: Fast Math Summary: Average # Attempted on Hard Items per Page
[W]fmtctx[T]			CTP-H: Fast Math Summary: Total # Correct on Mult Items

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmtcax[T]			CTP-H: Fast Math Summary: Average # Correct on Mult Items per Page
[W]fmtcta[T]			CTP-H: Fast Math Summary: Total # Correct on Add Items
[W]fmtcaa[T]			CTP-H: Fast Math Summary: Average # Correct on Add Items per Page
[W]fmtctg[T]			CTP-H: Fast Math Summary: Total # Correct on Grouped Items
[W]fmtcag[T]			CTP-H: Fast Math Summary: Average # Correct on Grouped Items per Page
[W]fmtctm[T]			CTP-H: Fast Math Summary: Total # Correct on Mixed Items
[W]fmtcam[T]			CTP-H: Fast Math Summary: Average # Correct on Mixed Items per Page
[W]fmtcte[T]			CTP-H: Fast Math Summary: Total # Correct on Easy Items
[W]fmtcae[T]			CTP-H: Fast Math Summary: Average # Correct on Easy Items per Page
[W]fmtcth[T]			CTP-H: Fast Math Summary: Total # Correct on Hard Items
[W]fmtcah[T]			CTP-H: Fast Math Summary: Average # Correct on Hard Items per Page
[W]fmtetx[T]			CTP-H: Fast Math Summary: Total # Errors on Mult Items
[W]fmteax[T]			CTP-H: Fast Math Summary: Average # Errors on Mult Items per Page
[W]fmteta[T]			CTP-H: Fast Math Summary: Total # Errors on Add Items
[W]fmteaa[T]			CTP-H: Fast Math Summary: Average # Errors on Add Items per Page
[W]fmtetg[T]			CTP-H: Fast Math Summary: Total # Errors on Grouped Items
[W]fmteag[T]			CTP-H: Fast Math Summary: Average # Errors on Grouped Items per Page
[W]fmtetm[T]			CTP-H: Fast Math Summary: Total # Errors on Mixed Items
[W]fmteam[T]			CTP-H: Fast Math Summary: Average # Errors on Mixed Items per Page
[W]fmtete[T]			CTP-H: Fast Math Summary: Total # Errors on Easy Items
[W]fmteae[T]			CTP-H: Fast Math Summary: Average # Errors on Easy Items per Page
[W]fmteth[T]			CTP-H: Fast Math Summary: Total # Errors on Hard Items

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmteah[T]			CTP-H: Fast Math Summary: Average # Errors on Hard Items per Page
[W]fmsctx[T]			CTP-H: Fast Math Summary: Total # Self Corrections on Mult Items
[W]fmscax[T]			CTP-H: Fast Math Summary: Average # Self Corrections on Mult Items per Page
[W]fmscta[T]			CTP-H: Fast Math Summary: Total # Self Corrections on Add Items
[W]fmscaa[T]			CTP-H: Fast Math Summary: Average # Self Corrections on Add Items per Page
[W]fmsctg[T]			CTP-H: Fast Math Summary: Total # Self Corrections on Grouped Items
[W]fmscag[T]			CTP-H: Fast Math Summary: Average # Self Corrections on Grouped Items per Page
[W]fmsctm[T]			CTP-H: Fast Math Summary: Total # Self Corrections on Mixed Items
[W]fmscam[T]			CTP-H: Fast Math Summary: Average # Self Corrections on Mixed Items per Page
[W]fmscte[T]			CTP-H: Fast Math Summary: Total # Self Corrections on Easy Items
[W]fmscae[T]			CTP-H: Fast Math Summary: Average # Self Corrections on Easy Items per Page
[W]fmscth[T]			CTP-H: Fast Math Summary: Total # Self Corrections on Hard Items
[W]fmscah[T]			CTP-H: Fast Math Summary: Average # Self Corrections on Hard Items per Page
[W]fmsktx[T]			CTP-H: Fast Math Summary: Total # Skips on Mult Items
[W]fmskax[T]			CTP-H: Fast Math Summary: Average # Skips on Mult Items per Page
[W]fmskta[T]			CTP-H: Fast Math Summary: Total # Skips on Add Items
[W]fmskaa[T]			CTP-H: Fast Math Summary: Average # Skips on Add Items per Page
[W]fmsktg[T]			CTP-H: Fast Math Summary: Total # Skips on Grouped Items

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmskag[T]			CTP-H: Fast Math Summary: Average # Skips on Grouped Items per Page
[W]fmsktm[T]			CTP-H: Fast Math Summary: Total # Skips on Mixed Items
[W]fmskam[T]			CTP-H: Fast Math Summary: Average # Skips on Mixed Items per Page
[W]fmskte[T]			CTP-H: Fast Math Summary: Total # Skips on Easy Items
[W]fmskae[T]			CTP-H: Fast Math Summary: Average # Skips on Easy Items per Page
[W]fmskth[T]			CTP-H: Fast Math Summary: Total # Skips on Hard Items
[W]fmskah[T]			CTP-H: Fast Math Summary: Average # Skips on Hard Items per Page
[W]fmrttx[T]			CTP-H: Fast Math Summary: Total Reaction Time on Mult Items
[W]fmrtax[T]			CTP-H: Fast Math Summary: Average Reaction Time on Mult Items per Page
[W]fmrtta[T]			CTP-H: Fast Math Summary: Total Reaction Time on Add Items
[W]fmrtaa[T]			CTP-H: Fast Math Summary: Average Reaction Time on Add Items per Page
[W]fmrttg[T]			CTP-H: Fast Math Summary: Total Reaction Time on Grouped Items
[W]fmrtag[T]			CTP-H: Fast Math Summary: Average Reaction Time on Grouped Items per Page
[W]fmrttm[T]			CTP-H: Fast Math Summary: Total Reaction Time on Mixed Items
[W]fmrtam[T]			CTP-H: Fast Math Summary: Average Reaction Time on Mixed Items per Page
[W]fmrtte[T]			CTP-H: Fast Math Summary: Total Reaction Time on Easy Items
[W]fmrtae[T]			CTP-H: Fast Math Summary: Average Reaction Time on Easy Items per Page
[W]fmrtth[T]			CTP-H: Fast Math Summary: Total Reaction Time on Hard Items

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmrtah[T]			CTP-H: Fast Math Summary: Average Reaction Time on Hard Items per Page
[W]fmcftx[T]			CTP-H: Fast Math Summary: Total Counted Fingers on Mult Items
[W]fmcfax[T]			CTP-H: Fast Math Summary: Average Counted Fingers on Mult Items per Page
[W]fmcfta[T]			CTP-H: Fast Math Summary: Total Counted Fingers on Add Items
[W]fmcfaa[T]			CTP-H: Fast Math Summary: Average Counted Fingers on Add Items per Page
[W]fmcftg[T]			CTP-H: Fast Math Summary: Total Counted Fingers on Grouped Items
[W]fmcfag[T]			CTP-H: Fast Math Summary: Average Counted Fingers on Grouped Items per Page
[W]fmcftm[T]			CTP-H: Fast Math Summary: Total Counted Fingers on Mixed Items
[W]fmcfam[T]			CTP-H: Fast Math Summary: Average Counted Fingers on Mixed Items per Page
[W]fmcfte[T]			CTP-H: Fast Math Summary: Total Counted Fingers on Easy Items
[W]fmcfae[T]			CTP-H: Fast Math Summary: Average Counted Fingers on Easy Items per Page
[W]fmcfth[T]			CTP-H: Fast Math Summary: Total Counted Fingers on Hard Items
[W]fmcfah[T]			CTP-H: Fast Math Summary: Average Counted Fingers on Hard Items per Page
[W]fmretx[T]			CTP-H: Fast Math Summary: Total # Problems Errors Made Twice On - Mult Items
[W]fmreax[T]			CTP-H: Fast Math Summary: Average # Problems Errors Made Twice On - Mult Items, per Page

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmreta[T]			CTP-H: Fast Math Summary: Total # Problems Errors Made Twice On - Add Items
[W]fmreaa[T]			CTP-H: Fast Math Summary: Average # Problems Errors Made Twice On - Add Items, per Page
[W]fmretg[T]			CTP-H: Fast Math Summary: Total # Problems Errors Made Twice On - Grouped Items
[W]fmreag[T]			CTP-H: Fast Math Summary: Average # Problems Errors Made Twice On - Grouped Items, per Page
[W]fmretm[T]			CTP-H: Fast Math Summary: Total # Problems Errors Made Twice On - Mixed Items
[W]fmream[T]			CTP-H: Fast Math Summary: Average # Problems Errors Made Twice On - Mixed Items, per Page
[W]fmrete[T]			CTP-H: Fast Math Summary: Total # Problems Errors Made Twice On - Easy Items
[W]fmreae[T]			CTP-H: Fast Math Summary: Average # Problems Errors Made Twice On - Easy Items, per Page
[W]fmreth[T]			CTP-H: Fast Math Summary: Total # Problems Errors Made Twice On - Hard Items
[W]fmreah[T]			CTP-H: Fast Math Summary: Average # Problems Errors Made Twice On - Hard Items, per Page
[W]fmpatx[T]			CTP-H: Fast Math Summary: Total Percent Accuracy on Mult Items
[W]fmpata[T]			CTP-H: Fast Math Summary: Total Percent Accuracy on Add Items
[W]fmpatg[T]			CTP-H: Fast Math Summary: Total Percent Accuracy on Grouped Items
[W]fmpatm[T]			CTP-H: Fast Math Summary: Total Percent Accuracy on Mixed Items
[W]fmpate[T]			CTP-H: Fast Math Summary: Total Percent Accuracy on Easy Items

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fmpath[T]			CTP-H: Fast Math Summary: Total Percent Accuracy on Hard Items
[W]fms5q1[T]		1 = "RDL" 2 = "KDL" 3 = "Neutral" 4 = "KL" 5 = "RL"	CTP-H: Fast Math: Survey With Five Options for Questions 1 & 2 (started in Wave 9): Question 1 ** Note that these variable names & values are different than those used in wave 8 because a Neutral option was added in wave 9
[W]fms5q2[T]		1 = "VH" 2 = "KH" 3 = "Neutral" 4 = "KE" 5 = "VE"	CTP-H: Fast Math: Survey With Five Options for Questions 1 & 2 (started in Wave 9): Question 2 ** Note that these variable names & values are different than those used in wave 8 because a Neutral option was added in wave 9
[W]fms3[T]		1 = "AR" 2 = "MR" 3 = "1/2 & 1/2" 4 = "MW" 5 = "AW"	CTP-H: Fast Math: Survey Question 3
[W]fmpam[T]	= mean of FM1PA, FM2PA, FM3PA, FM4PA, FM5PA, FM6PA, FM7PA, FM8PA, FM9PA		CTP-H: Fast Math: Overall Percent Accuracy Mean
[W]fm1ef[T]	= FM1TC / FM1RT	8.3	CTP-H: Fast Math: Efficiency for Page 1
[W]fm2ef[T]	= FM2TC / FM2RT	8.3	CTP-H: Fast Math: Efficiency for Page 2
[W]fm3ef[T]	= FM3TC / FM3RT	8.3	CTP-H: Fast Math: Efficiency for Page 3
[W]fm4ef[T]	= FM4TC / FM4RT	8.3	CTP-H: Fast Math: Efficiency for Page 4
[W]fm5ef[T]	= FM5TC / FM5RT	8.3	CTP-H: Fast Math: Efficiency for Page 5
[W]fm6ef[T]	= FM6TC / FM6RT	8.3	CTP-H: Fast Math: Efficiency for Page 6

Fast Math

(there's also a pictorial codebook below for variables from excel report, though all are included in this list as well)

Variable	Pseudocode	Format	Label
[W]fm7ef[T]	= FM7TC / FM7RT	8.3	CTP-H: Fast Math: Efficiency for Page 7
[W]fm8ef[T]	= FM8TC / FM8RT	8.3	CTP-H: Fast Math: Efficiency for Page 8
[W]fm9ef[T]	= FM9TC / FM9RT	8.3	CTP-H: Fast Math: Efficiency for Page 9
[W]fmef[T]	= (sum of FM[1-9]TC) divided by (sum of FM[1-9]RT)	8.3	CTP-H: Fast Math: Efficiency Overall
[W]fmefx[T]	= FMTCTX / FMRTTX	8.3	CTP-H: Fast Math Summary: Efficiency for Mult Items
[W]fmefa[T]	= FMTCTA / FMRTTA	8.3	CTP-H: Fast Math Summary: Efficiency for Add Items
[W]fmefg[T]	= FMTCTG / FMRTTG	8.3	CTP-H: Fast Math Summary: Efficiency for Grouped Items
[W]fmefm[T]	= FMTCTM / FMRTTM	8.3	CTP-H: Fast Math Summary: Efficiency for Mixed Items
[W]fmefe[T]	= FMTCTE / FMRTTE	8.3	CTP-H: Fast Math Summary: Efficiency for Easy Items
[W]fmefh[T]	= FMTCTH / FMRTTH	8.3	CTP-H: Fast Math Summary: Efficiency for Hard Items

Fast Math variables that are not documented by pseudocode are created by an Excel spreadsheet provided by Michele Mazzocco and her staff

Fast Math Release Codebook

[w] = wave letter
[T] = twin #

Page 1

Subject ID SID FID FID ~~Fast Facts Task~~

Date of Evaluation [w]FMTESTDATE[T] ~~Do Not Use Data~~

Practice Items

	Skipped	Operation Errors	CF	Correct	% Correct
Pg 1		[w]FMPRAC1OE[T]			
Pg 2		2			
Pg 3		3			
Pg 4		4			
Pg 5		5			
Pg 6		6			
Pg 7		7			
Pg 8		8			
Pg 9		9			
Totals:		[w]FMPRACTOE[T]			

Response Time Difference

Mixed vs. Grouped

Pgs [5+6+7+8] - [1+2+3+4] [w]FMRT DMG[T]

Hard vs. Easy

Pgs [3+4+7+8] - [1+2+5+6] [w]FMRT DHE[T]

Add vs. Mult

Pgs [2+4+6+8] - [1+3+5+7] [w]FMRT DAX[T]

Fast Math, page 1
[w] = wave letter
[T] = twin #

Fast Math Release Codebook

Page 2

[W] = wave letter
[T] = twin #

Fast Facts Test Items (by page)

~~Fast Facts Task~~

	Attempted	Correct	Errors	SC	Skips	RT	CF	Errors Made Twice	Percent Accuracy
Pg 1	[W]FM1AT[T]	[W]FM1TC[T]	[W]FM1TE[T]	[W]FM1SC[T]	[W]FM1SK[T]	[W]FM1RT[T]	[W]FM1CF[T]	[W]FM1RE[T]	[W]FM1PA[T]
Pg 2	2	2	2	2	2	2	2	2	2
Pg 3	3	3	3	3	3	3	3	3	3
Pg 4	4	4	4	4	4	4	4	4	4
Pg 5	5	5	5	5	5	5	5	5	5
Pg 6	6	6	6	6	6	6	6	6	6
Pg 7	7	7	7	7	7	7	7	7	7
Pg 8	8	8	8	8	8	8	8	8	8
Pg 9	9	9	9	9	9	9	9	9	9
Totals:	[W]FMTAT[T]	[W]FMTTC[T]	[W]FMTTE[T]	[W]FMTSC[T]	[W]FMTSK[T]		[W]FMTCF[T]	[W]FMTRE[T]	[W]FMTPA[T]
Average:	[W]FMAAT[T]	[W]FMATC[T]	[W]FMATE[T]	[W]FMASC[T]	[W]FMASK[T]	[W]FMART[T]	[W]FMACF[T]	[W]FMARE[T]	

Fast Math Release Codebook

Page 3

[W] = wave letter

[T] = twin #

Error Type (by page)	Pg 1	Pg 2	Pg 3	Pg 4	Pg 5	Pg 6	Pg 7	Pg 8	Pg 9
Operation	[W]FM1ON[T]	→						→	[W]FM9ON[T]
Operand	[W]FM1OD[T]		[W]FM3OD[T]		[W]FM5OD[T]		[W]FM7OD[T]		[W]FM9OD[T]
Table	[W]FM1TA[T]		[W]FM3TA[T]		[W]FM5TA[T]		[W]FM7TA[T]		[W]FM9TA[T]
Regrouping	[W]FM1RG[T]		[W]FM3RG[T]		[W]FM5RG[T]		[W]FM7RG[T]		[W]FM9RG[T]
Non-Table	[W]FM1NT[T]		[W]FM3NT[T]		[W]FM5NT[T]		[W]FM7NT[T]		[W]FM9NT[T]
Procedural		[W]FM2PR[T]		[W]FM4PR[T]		[W]FM6PR[T]		[W]FM8PR[T]	
Doubling		[W]FM2DO[T]		[W]FM4DO[T]		[W]FM6DO[T]		[W]FM8DO[T]	
plus/minus 1		[W]FM2PL[T]		[W]FM4PL[T]		[W]FM6PL[T]		[W]FM8PL[T]	
TPC		[W]FM2TP[T]		[W]FM4TP[T]		[W]FM6TP[T]		[W]FM8TP[T]	
NAATO		[W]FM2NA[T]		[W]FM4NA[T]		[W]FM6NA[T]		[W]FM8NA[T]	
Mixed Operation		[W]FM2MO[T]		[W]FM4MO[T]		[W]FM6MO[T]		[W]FM8MO[T]	
Unknown		[W]FM2UN[T]		[W]FM4UN[T]		[W]FM6UN[T]		[W]FM8UN[T]	
Impossible	[W]FM1IM[T]	→						→	[W]FM9IM[T]

Fast Math Release Codebook

Page 4

[W] = wave letter

[T] = twin #

Summary by Problem Type (excluding pg 9)

		Mult.	Add.	Grouped	Mixed	Easy	Hard	Test Total	Test Avg
Operation Errs	Total	[W]FMONTX[T]	[W]FMONTA[T]	[W]FMONTG[T]	[W]FMONTM[T]	[W]FMONTE[T]	[W]FMONTH[T]	[W]FMONSUM[T]	[W]FMONMEAN[T]
	Avg/ pg	[W]FMONAX[T]	[W]FMONAA[T]	[W]FMONAG[T]	[W]FMONAM[T]	[W]FMONAE[T]	[W]FMONAH[T]		
Operand Errs	Total	[W]FMODTX[T]		[W]FMODTG[T]	[W]FMODTM[T]	[W]FMODTE[T]	[W]FMODTH[T]	[W]FMODSUM[T]	[W]FMODMEAN[T]
	Avg/ pg	[W]FMODAX[T]		[W]FMODAG[T]	[W]FMODAM[T]	[W]FMODAE[T]	[W]FMODAH[T]		
Table Errs	Total	[W]FMTATX[T]		[W]FMTATG[T]	[W]FMTATM[T]	[W]FMTATE[T]	[W]FMTATH[T]	[W]FMTASUM[T]	[W]FMTAMEAN[T]
	Avg/ pg	[W]FMTAAX[T]		[W]FMTAAG[T]	[W]FMTAAM[T]	[W]FMTAAE[T]	[W]FMTAAH[T]		
Regrouping Errs	Total	[W]FMRGTX[T]		[W]FMRGTG[T]	[W]FMRGTM[T]	[W]FMRGTE[T]	[W]FMRGTH[T]	[W]FMRGSUM[T]	[W]FMRGMEAN[T]
	Avg/ pg	[W]FMRGAX[T]		[W]FMRGAG[T]	[W]FMRGAM[T]	[W]FMRGAE[T]	[W]FMRGAH[T]		
Non-Table Errs	Total	[W]FMNTTX[T]		[W]FMNTTG[T]	[W]FMNTTM[T]	[W]FMNTTE[T]	[W]FMNTTH[T]	[W]FMNTSUM[T]	[W]FMNTMEAN[T]
	Avg/ pg	[W]FMNTAX[T]		[W]FMNTAG[T]	[W]FMNTAM[T]	[W]FMNTAE[T]	[W]FMNTAH[T]		
Procedural Errs	Total		[W]FMPRTA[T]	[W]FMPRTG[T]	[W]FMPRTM[T]	[W]FMPRTE[T]	[W]FMPRTH[T]	[W]FMPRSUM[T]	[W]FMPRMEAN[T]
	Avg/ pg		[W]FMPRAA[T]	[W]FMPRAG[T]	[W]FMPRAM[T]	[W]FMPRAE[T]	[W]FMPRAH[T]		
Doubling Errs	Total		[W]FMDOTA[T]	[W]FMDOTG[T]	[W]FMDOTM[T]	[W]FMDOTE[T]	[W]FMDOTH[T]	[W]FMDOSUM[T]	[W]FMDOMEAN[T]
	Avg/ pg		[W]FMDOAA[T]	[W]FMDOAG[T]	[W]FMDOAM[T]	[W]FMDOAE[T]	[W]FMDOAH[T]		

Fast Math Release Codebook

Page 5

[w] = wave letter

[T] = test #

Summary by Problem Type (excluding pg 9)

		Mult.	Add.	Grouped	Mixed	Easy	Hard	Test Total	Test Avg
	Total		[w]FMPLTA[T]	[w]FMPLTG[T]	[w]FMPLTM[T]	[w]FMPLTE[T]	[w]FMPLTH[T]	[w]FMPLSUM[T]	
plus/minus 1	Avg/ pg		[w]FMPLAA[T]	[w]FMPLAG[T]	[w]FMPLAM[T]	[w]FMPLAE[T]	[w]FMPLAH[T]		[w]FMPLMEAN[T]
	Total		[w]FMTPTA[T]	[w]FMTPTG[T]	[w]FMTPTM[T]	[w]FMTPTE[T]	[w]FMTPTH[T]	[w]FMTPSUM[T]	
TPC Errs	Avg/ pg		[w]FMTPAA[T]	[w]FMTPAG[T]	[w]FMTPAM[T]	[w]FMTPAE[T]	[w]FMTPAH[T]		[w]FMTPMEAN[T]
	Total		[w]FMNATA[T]	[w]FMNATG[T]	[w]FMNATM[T]	[w]FMNATE[T]	[w]FMNATH[T]	[w]FMNASUM[T]	
NAATO Errs	Avg/ pg		[w]FMNAAA[T]	[w]FMNAAG[T]	[w]FMNAAM[T]	[w]FMNAAE[T]	[w]FMNAAH[T]		[w]FMNAMEAN[T]
Mixed Oper	Total		[w]FMMOTA[T]	[w]FMMOTG[T]	[w]FMMOTM[T]	[w]FMMOTE[T]	[w]FMMOTH[T]	[w]FMMOSUM[T]	
Errs	Avg/ pg		[w]FMMOAA[T]	[w]FMMOAG[T]	[w]FMMOAM[T]	[w]FMMOAE[T]	[w]FMMOAH[T]		[w]FMMOMEAN[T]
Unknown	Total		[w]FMUNTA[T]	[w]FMUNTG[T]	[w]FMUNTM[T]	[w]FMUNTE[T]	[w]FMUNTH[T]	[w]FMUNSUM[T]	
Errs	Avg/ pg		[w]FMUNAA[T]	[w]FMUNAG[T]	[w]FMUNAM[T]	[w]FMUNAE[T]	[w]FMUNAH[T]		[w]FMUNMEAN[T]
Impossible	Total	[w]FMIMTX[T]	[w]FMIMTA[T]	[w]FMIMTG[T]	[w]FMIMTM[T]	[w]FMIMTE[T]	[w]FMIMTH[T]	[w]FMIMSUM[T]	
Errs	Avg/ pg	[w]FMIMAX[T]	[w]FMIMAA[T]	[w]FMIMAG[T]	[w]FMIMAM[T]	[w]FMIMAE[T]	[w]FMIMAH[T]		[w]FMIMMEAN[T]

Fast Math Release Codebook

Page 6

[W] = wave letter

[T] = twin #

Summary by Problem Type (excluding pg 9)

		Mult.	Add.	Grouped	Mixed	Easy	Hard
Attempted	Total	[W]FMATTX[T]	[W]FMATTA[T]	[W]FMATTG[T]	[W]FMATTM[T]	[W]FMATTE[T]	[W]FMATTH[T]
	Avg/ pg	[W]FMATAX[T]	[W]FMATAA[T]	[W]FMATAG[T]	[W]FMATAM[T]	[W]FMATAE[T]	[W]FMATAH[T]
Correct	Total	[W]FMTCTX[T]	[W]FMTCTA[T]	[W]FMTCTG[T]	[W]FMTCTM[T]	[W]FMTCTE[T]	[W]FMTCTH[T]
	Avg/ pg	[W]FMTCAX[T]	[W]FMTCAA[T]	[W]FMTCAG[T]	[W]FMTCAM[T]	[W]FMTCAE[T]	[W]FMTCAH[T]
Errors	Total	[W]FMTETX[T]	[W]FMTETA[T]	[W]FMTETG[T]	[W]FMTETM[T]	[W]FMTETE[T]	[W]FMTETH[T]
	Avg/ pg	[W]FMTEAX[T]	[W]FMTEAA[T]	[W]FMTEAG[T]	[W]FMTEAM[T]	[W]FMTEAE[T]	[W]FMTEAH[T]
SC	Total	[W]FMSCTX[T]	[W]FMSCTA[T]	[W]FMSCTG[T]	[W]FMSCTM[T]	[W]FMSCTE[T]	[W]FMSCTH[T]
	Avg/ pg	[W]FMSCAX[T]	[W]FMSCAA[T]	[W]FMSCAG[T]	[W]FMSCAM[T]	[W]FMSCAE[T]	[W]FMSCAH[T]
Skips	Total	[W]FMSKTX[T]	[W]FMSKTA[T]	[W]FMSKTG[T]	[W]FMSKTM[T]	[W]FMSKTE[T]	[W]FMSKTH[T]
	Avg/ pg	[W]FMSKAX[T]	[W]FMSKAA[T]	[W]FMSKAG[T]	[W]FMSKAM[T]	[W]FMSKAE[T]	[W]FMSKAH[T]
RT	Total	[W]FMRTTX[T]	[W]FMRTTA[T]	[W]FMRTTG[T]	[W]FMRTTM[T]	[W]FMRTTE[T]	[W]FMRTTH[T]
	Avg/ pg	[W]FMRTAX[T]	[W]FMRTAA[T]	[W]FMRTAG[T]	[W]FMRTAM[T]	[W]FMRTAE[T]	[W]FMRTAH[T]
CF	Total	[W]FMCFTX[T]	[W]FMCFTA[T]	[W]FMCFTG[T]	[W]FMCFTM[T]	[W]FMCFTE[T]	[W]FMCFTH[T]
	Avg/ pg	[W]FMCFAX[T]	[W]FMCFAA[T]	[W]FMCFAG[T]	[W]FMCFAM[T]	[W]FMCFAE[T]	[W]FMCFAH[T]
# Problems Errs Made	Total	[W]FMRETX[T]	[W]FMRETA[T]	[W]FMRETG[T]	[W]FMRETM[T]	[W]FMRETE[T]	[W]FMRETH[T]
	Avg/ pg	[W]FMREAX[T]	[W]FMREAA[T]	[W]FMREAG[T]	[W]FMREAM[T]	[W]FMREAE[T]	[W]FMREAH[T]
% Accuracy (all relev pgs)	Total	[W]FMPATX[T]	[W]FMPATA[T]	[W]FMPATG[T]	[W]FMPATM[T]	[W]FMPATE[T]	[W]FMPATH[T]

Query Questions: L/DL [W]FMS1[T]

Easy/Hard [W]FMS2[T]

How Did? [W]FMS3[T]

Four Choice Reaction Time

Variable	Pseudocode	Format	Label
[W]fcrtm[T]	= mean of all Reaction Time values		CTP-H: 4 Choice Reaction Time - Mean RT of all Items
[W]fccorsum[T]	= N of correct scores for items 1-40		CTP-H: 4 Choice Reaction Time - Total Number of Correct Answers
[W]fccorpct[T]	= (FCCORSUM / [N of item scores 1-40 not missing]) * 100		CTP-H: 4 Choice Reaction Time - % of Answers Correct
[W]FCIncSUM[T]	= [N of item scores 1-40 not missing] minus FCCORSUM		CTP-H: 4 Choice Reaction Time - Total Number of Incorrect Answers
[W]FCCORRTM[T]	= mean of Reaction Time values, only including items where score = 1		CTP-H: 4 Choice Reaction Time - Mean RT of Correct Items
[W]FCINCRTM[T]	= mean of Reaction Time values, only including items where score = 0		CTP-H: 4 Choice Reaction Time - Mean RT of Incorrect Items
[W]FCCORRTSD[T]	= standard deviation of Reaction Time values, only including items where score = 1		CTP-H: 4 Choice Reaction Time - Standard Deviation of RT of Correct Items
[W]FCINCRTSD[T]	= standard deviation of Reaction Time values, only including items where score = 0		CTP-H: 4 Choice Reaction Time - Standard Deviation of RT of Incorrect Items

Gates MacGinitie Reading

Variable	Pseudocode	Format	Label
[W]gmcrw[T]			CTP-H: Gates MacGinitie -- Total Raw

Letter Memory

Variable	Pseudocode	Format	Label
[W]lmt1a[T]			CTP-H: A
[W]lmt1b[T]			CTP-H: B
[W]lmt1c[T]			CTP-H: C
[W]lmt1d[T]			CTP-H: D
[W]lmt1e[T]			CTP-H: E
[W]lmt1f[T]			CTP-H: F
[W]lmt1g[T]			CTP-H: G
[W]lmt1f1[T]		Char	CTP-H: Top
[W]lmt1f2[T]		Char	CTP-H: Middle
[W]lmt1f3[T]		Char	CTP-H: Bottom
[W]lmt2a[T]			CTP-H: A
[W]lmt2b[T]			CTP-H: B
[W]lmt2c[T]			CTP-H: C
[W]lmt2d[T]			CTP-H: D
[W]lmt2e[T]			CTP-H: E
[W]lmt2f[T]			CTP-H: F
[W]lmt2g[T]			CTP-H: G
[W]lmt2h[T]			CTP-H: H
[W]lmt2i[T]			CTP-H: I
[W]lmt2j[T]			CTP-H: J
[W]lmt2k[T]			CTP-H: K
[W]lmt2f1[T]		Char	CTP-H: Top
[W]lmt2f2[T]		Char	CTP-H: Middle

Letter Memory

Variable	Pseudocode	Format	Label
[W]lmt2f3[T]		Char	CTP-H: Bottom
[W]lmt3a[T]			CTP-H: A
[W]lmt3b[T]			CTP-H: B
[W]lmt3c[T]			CTP-H: C
[W]lmt3d[T]			CTP-H: D
[W]lmt3e[T]			CTP-H: E
[W]lmt3f[T]			CTP-H: F
[W]lmt3g[T]			CTP-H: G
[W]lmt3h[T]			CTP-H: H
[W]lmt3i[T]			CTP-H: I
[W]lmt3f1[T]		Char	CTP-H: Top
[W]lmt3f2[T]		Char	CTP-H: Middle
[W]lmt3f3[T]		Char	CTP-H: Bottom
[W]lmt4a[T]			CTP-H: A
[W]lmt4b[T]			CTP-H: B
[W]lmt4c[T]			CTP-H: C
[W]lmt4d[T]			CTP-H: D
[W]lmt4e[T]			CTP-H: E
[W]lmt4f[T]			CTP-H: F
[W]lmt4g[T]			CTP-H: G
[W]lmt4f1[T]		Char	CTP-H: Top
[W]lmt4f2[T]		Char	CTP-H: Middle
[W]lmt4f3[T]		Char	CTP-H: Bottom

Letter Memory

Variable	Pseudocode	Format	Label
[W]lmt5a[T]			CTP-H: A
[W]lmt5b[T]			CTP-H: B
[W]lmt5c[T]			CTP-H: C
[W]lmt5d[T]			CTP-H: D
[W]lmt5e[T]			CTP-H: E
[W]lmt5f[T]			CTP-H: F
[W]lmt5g[T]			CTP-H: G
[W]lmt5h[T]			CTP-H: H
[W]lmt5i[T]			CTP-H: I
[W]lmt5f1[T]		Char	CTP-H: Top
[W]lmt5f2[T]		Char	CTP-H: Middle
[W]lmt5f3[T]		Char	CTP-H: Bottom
[W]lmt6a[T]			CTP-H: A
[W]lmt6b[T]			CTP-H: B
[W]lmt6c[T]			CTP-H: C
[W]lmt6d[T]			CTP-H: D
[W]lmt6e[T]			CTP-H: E
[W]lmt6f[T]			CTP-H: F
[W]lmt6g[T]			CTP-H: G
[W]lmt6h[T]			CTP-H: H
[W]lmt6i[T]			CTP-H: I
[W]lmt6j[T]			CTP-H: J
[W]lmt6k[T]			CTP-H: K

Letter Memory

Variable	Pseudocode	Format	Label
[W]lmt6f1[T]		Char	CTP-H: Top
[W]lmt6f2[T]		Char	CTP-H: Middle
[W]lmt6f3[T]		Char	CTP-H: Bottom
[W]lmt7a[T]			CTP-H: A
[W]lmt7b[T]			CTP-H: B
[W]lmt7c[T]			CTP-H: C
[W]lmt7d[T]			CTP-H: D
[W]lmt7e[T]			CTP-H: E
[W]lmt7f[T]			CTP-H: F
[W]lmt7g[T]			CTP-H: G
[W]lmt7k[T]			CTP-H: H
[W]lmt7f1[T]		Char	CTP-H: Top
[W]lmt7f2[T]		Char	CTP-H: Middle
[W]lmt7f3[T]		Char	CTP-H: Bottom
[W]lmt8a[T]			CTP-H: A
[W]lmt8b[T]			CTP-H: B
[W]lmt8c[T]			CTP-H: C
[W]lmt8d[T]			CTP-H: D
[W]lmt8e[T]			CTP-H: E
[W]lmt8f[T]			CTP-H: F
[W]lmt8g[T]			CTP-H: G
[W]lmt8h[T]			CTP-H: H
[W]lmt8i[T]			CTP-H: I

Letter Memory

Variable	Pseudocode	Format	Label
[W]lmt8f1[T]		Char	CTP-H: Top
[W]lmt8f2[T]		Char	CTP-H: Middle
[W]lmt8f3[T]		Char	CTP-H: Bottom
[W]lmt9a[T]			CTP-H: A
[W]lmt9b[T]			CTP-H: B
[W]lmt9c[T]			CTP-H: C
[W]lmt9d[T]			CTP-H: D
[W]lmt9e[T]			CTP-H: E
[W]lmt9f[T]			CTP-H: F
[W]lmt9g[T]			CTP-H: G
[W]lmt9h[T]			CTP-H: H
[W]lmt9i[T]			CTP-H: I
[W]lmt9j[T]			CTP-H: J
[W]lmt9k[T]			CTP-H: K
[W]lmt9f1[T]		Char	CTP-H: Top
[W]lmt9f2[T]		Char	CTP-H: Middle
[W]lmt9f3[T]		Char	CTP-H: Bottom
[W]lmt10a[T]			CTP-H: A
[W]lmt10b[T]			CTP-H: B
[W]lmt10c[T]			CTP-H: C
[W]lmt10d[T]			CTP-H: D
[W]lmt10e[T]			CTP-H: E
[W]lmt10f[T]			CTP-H: F

Letter Memory

Variable	Pseudocode	Format	Label
[W]lmt10g[T]			CTP-H: G
[W]lmt10h[T]			CTP-H: H
[W]lmt10i[T]			CTP-H: I
[W]lmt10f1[T]		Char	CTP-H: Top
[W]lmt10f2[T]		Char	CTP-H: Middle
[W]lmt10f3[T]		Char	CTP-H: Bottom
[W]lmt11a[T]			CTP-H: A
[W]lmt11b[T]			CTP-H: B
[W]lmt11c[T]			CTP-H: C
[W]lmt11d[T]			CTP-H: D
[W]lmt11e[T]			CTP-H: E
[W]lmt11f[T]			CTP-H: F
[W]lmt11g[T]			CTP-H: G
[W]lmt11h[T]			CTP-H: H
[W]lmt11i[T]			CTP-H: I
[W]lmt11j[T]			CTP-H: J
[W]lmt11k[T]			CTP-H: K
[W]lmt11f1[T]		Char	CTP-H: Top
[W]lmt11f2[T]		Char	CTP-H: Middle
[W]lmt11f3[T]		Char	CTP-H: Bottom
[W]lmt12a[T]			CTP-H: A
[W]lmt12b[T]			CTP-H: B
[W]lmt12c[T]			CTP-H: C

Letter Memory

Variable	Pseudocode	Format	Label
[W]lmt12d[T]			CTP-H: D
[W]lmt12e[T]			CTP-H: E
[W]lmt12f[T]			CTP-H: F
[W]lmt12g[T]			CTP-H: G
[W]lmt12f1[T]		Char	CTP-H: Top
[W]lmt12f2[T]		Char	CTP-H: Middle
[W]lmt12f3[T]		Char	CTP-H: Bottom

Numberline Estimation

Variable	Pseudocode	Format	Label
[W]nenum1[T]			CTP-H: Numberline Estimation: Value to be Estimated: 2
[W]nenum2[T]			CTP-H: Numberline Estimation: Value to be Estimated: 5
[W]nenum3[T]			CTP-H: Numberline Estimation: Value to be Estimated: 18
[W]nenum4[T]			CTP-H: Numberline Estimation: Value to be Estimated: 34
[W]nenum5[T]			CTP-H: Numberline Estimation: Value to be Estimated: 56
[W]nenum6[T]			CTP-H: Numberline Estimation: Value to be Estimated: 78
[W]nenum7[T]			CTP-H: Numberline Estimation: Value to be Estimated: 100
[W]nenum8[T]			CTP-H: Numberline Estimation: Value to be Estimated: 122
[W]nenum9[T]			CTP-H: Numberline Estimation: Value to be Estimated: 147
[W]nenum10[T]			CTP-H: Numberline Estimation: Value to be Estimated: 150
[W]nenum11[T]			CTP-H: Numberline Estimation: Value to be Estimated: 163
[W]nenum12[T]			CTP-H: Numberline Estimation: Value to be Estimated: 179
[W]nenum13[T]			CTP-H: Numberline Estimation: Value to be Estimated: 246
[W]nenum14[T]			CTP-H: Numberline Estimation: Value to be Estimated: 366
[W]nenum15[T]			CTP-H: Numberline Estimation: Value to be Estimated: 486
[W]nenum16[T]			CTP-H: Numberline Estimation: Value to be Estimated: 606
[W]nenum17[T]			CTP-H: Numberline Estimation: Value to be Estimated: 722
[W]nenum18[T]			CTP-H: Numberline Estimation: Value to be Estimated: 725
[W]nenum19[T]			CTP-H: Numberline Estimation: Value to be Estimated: 738
[W]nenum20[T]			CTP-H: Numberline Estimation: Value to be Estimated: 754
[W]nenum21[T]			CTP-H: Numberline Estimation: Value to be Estimated: 818
[W]nenum22[T]			CTP-H: Numberline Estimation: Value to be Estimated: 938
[W]neans1[T]	=(length of child's line(cm) / length of numberline(cm)) * 1000		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 2

Numberline Estimation

Variable	Pseudocode	Format	Label
[W]neans2[T]	=(length of child's line(cm) / length of numberline(cm)) * 1000		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 5
[W]neans3[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 18
[W]neans4[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 34
[W]neans5[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 56
[W]neans6[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 78
[W]neans7[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 100
[W]neans8[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 122
[W]neans9[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 147
[W]neans10[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 150
[W]neans11[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 163
[W]neans12[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 179
[W]neans13[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 246
[W]neans14[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 366
[W]neans15[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 486
[W]neans16[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 606
[W]neans17[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 722
[W]neans18[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 725
[W]neans19[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 738
[W]neans20[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 754
[W]neans21[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 818
[W]neans22[T]	(same)		CTP-H: Numberline Estimation: Value of Childs Mark On Line: 938
[W]neDIF1[T]	= absolute value(NEANS[item] minus NENUM[item])		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 2

Numberline Estimation

Variable	Pseudocode	Format	Label
[W]neDIF2[T]	= absolute value(NEANS[item] minus NENUM[item])		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 5
[W]neDIF3[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 18
[W]neDIF4[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 34
[W]neDIF5[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 56
[W]neDIF6[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 78
[W]neDIF7[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 100
[W]neDIF8[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 122
[W]neDIF9[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 147
[W]neDIF10[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 150
[W]neDIF11[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 163
[W]neDIF12[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 179
[W]neDIF13[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 246
[W]neDIF14[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 366
[W]neDIF15[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 486

Numberline Estimation

Variable	Pseudocode	Format	Label
[W]neDIF16[T]	= absolute value(NEANS[item] minus NENUM[item])		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 606
[W]neDIF17[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 722
[W]neDIF18[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 725
[W]neDIF19[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 738
[W]neDIF20[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 754
[W]neDIF21[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 818
[W]neDIF22[T]	(same)		CTP-H: Numberline Estimation: Difference Between Number To Be Estimated and Number Answered: 938
[W]neDIFM[T]	= mean of NEDIF1 through NEDIF22		CTP-H: Numberline Estimation: Mean Difference Between Number To Be Estimated and Number Answered

Stanford Binet: Memory For Digits (4th Edition)

Variable	Pseudocode	Format	Label
[W]mdfrw[T]			CTP-H: Memory for Digits - Forward: Raw Score
[W]mdbrw[T]			CTP-H: Memory for Digits - Reversed: Raw Score
[W]mdrw[T]	= MDFRW + MDBRW		CTP-H: Memory for Digits: Total Raw Score
[W]mdst[T]			CTP-H: Memory for Digits - Standardized

Stop Signal

Variable	Pseudocode	Format	Label
[W]stop_practice_rt_mean[T]			CTP-H: Stop Signal: Mean of Practice Reaction Time
[W]stop_practice_rt_median[T]			CTP-H: Stop Signal: Median Practice Reaction Time
[W]stop_practice_rt_sd[T]			CTP-H: Stop Signal: SD of Practice Reaction Time
[W]stop_go_correct_bl3[T]			CTP-H: Stop Signal: # Correct Go Trial Responses for Test Block 3
[W]stop_go_correct_bl4[T]			CTP-H: Stop Signal: # Correct Go Trial Responses for Test Block 4
[W]stop_go_correct_bl5[T]			CTP-H: Stop Signal: # Correct Go Trial Responses for Test Block 5
[W]stop_go_correct_bl6[T]			CTP-H: Stop Signal: # Correct Go Trial Responses for Test Block 6
[W]stop_go_rt_mean_bl3[T]			CTP-H: Stop Signal: Mean of Go Reaction Time of Correct Go Trials for Test Block 3
[W]stop_go_rt_mean_bl4[T]			CTP-H: Stop Signal: Mean of Go Reaction Time of Correct Go Trials for Test Block 4
[W]stop_go_rt_mean_bl5[T]			CTP-H: Stop Signal: Mean of Go Reaction Time of Correct Go Trials for Test Block 5
[W]stop_go_rt_mean_bl6[T]			CTP-H: Stop Signal: Mean of Go Reaction Time of Correct Go Trials for Test Block 6
[W]stop_go_rt_median_bl3[T]			CTP-H: Stop Signal: Median of Go Reaction Time of Correct Go Trials for Test Block 3
[W]stop_go_rt_median_bl4[T]			CTP-H: Stop Signal: Median of Go Reaction Time of Correct Go Trials for Test Block 4
[W]stop_go_rt_median_bl5[T]			CTP-H: Stop Signal: Median of Go Reaction Time of Correct Go Trials for Test Block 5
[W]stop_go_rt_median_bl6[T]			CTP-H: Stop Signal: Median of Go Reaction Time of Correct Go Trials for Test Block 6
[W]stop_go_rtsd_bl3[T]			CTP-H: Stop Signal: SD of Go Reaction Time of Correct Go Trials for Test Block 3
[W]stop_go_rtsd_bl4[T]			CTP-H: Stop Signal: SD of Go Reaction Time of Correct Go Trials for Test Block 4

Stop Signal

Variable	Pseudocode	Format	Label
[W]stop_go_rtsd_bl5[T]			CTP-H: Stop Signal: SD of Go Reaction Time of Correct Go Trials for Test Block 5
[W]stop_go_rtsd_bl6[T]			CTP-H: Stop Signal: SD of Go Reaction Time of Correct Go Trials for Test Block 6
[W]stop_go_omiss_bl3[T]			CTP-H: Stop Signal: Sum of Omission Errors (Subject Failed to Respond on Go Trial) for Test Block 3
[W]stop_go_omiss_bl4[T]			CTP-H: Stop Signal: Sum of Omission Errors (Subject Failed to Respond on Go Trial) for Test Block 4
[W]stop_go_omiss_bl5[T]			CTP-H: Stop Signal: Sum of Omission Errors (Subject Failed to Respond on Go Trial) for Test Block 5
[W]stop_go_omiss_bl6[T]			CTP-H: Stop Signal: Sum of Omission Errors (Subject Failed to Respond on Go Trial) for Test Block 6
[W]stop_crej_bl3[T]			CTP-H: Stop Signal: Sum of Correct Inhibition for Test Block 3
[W]stop_crej_bl4[T]			CTP-H: Stop Signal: Sum of Correct Inhibition for Test Block 4
[W]stop_crej_bl5[T]			CTP-H: Stop Signal: Sum of Correct Inhibition for Test Block 5
[W]stop_crej_bl6[T]			CTP-H: Stop Signal: Sum of Correct Inhibition for Test Block 6
[W]stop_fail_in_bl3[T]			CTP-H: Stop Signal: Sum of Failure to Inhibit for Test Block 3
[W]stop_fail_in_bl4[T]			CTP-H: Stop Signal: Sum of Failure to Inhibit for Test Block 4
[W]stop_fail_in_bl5[T]			CTP-H: Stop Signal: Sum of Failure to Inhibit for Test Block 5
[W]stop_fail_in_bl6[T]			CTP-H: Stop Signal: Sum of Failure to Inhibit for Test Block 6
[W]stop_prob_inhib_bl3[T]			CTP-H: Stop Signal: Probability of Correct Inhibition for Test Block 3
[W]stop_prob_inhib_bl4[T]			CTP-H: Stop Signal: Probability of Correct Inhibition for Test Block 4
[W]stop_prob_inhib_bl5[T]			CTP-H: Stop Signal: Probability of Correct Inhibition for Test Block 5
[W]stop_prob_inhib_bl6[T]			CTP-H: Stop Signal: Probability of Correct Inhibition for Test Block 6
[W]stop_mean_delay_bl3[T]			CTP-H: Stop Signal: Mean of Delay for Test Block 3

Stop Signal

Variable	Pseudocode	Format	Label
[W]stop_mean_delay_bl4[T]			CTP-H: Stop Signal: Mean of Delay for Test Block 4
[W]stop_mean_delay_bl5[T]			CTP-H: Stop Signal: Mean of Delay for Test Block 5
[W]stop_mean_delay_bl6[T]			CTP-H: Stop Signal: Mean of Delay for Test Block 6
[W]stop_median_delay_bl3[T]			CTP-H: Stop Signal: Median of Delay for Test Block 3
[W]stop_median_delay_bl4[T]			CTP-H: Stop Signal: Median of Delay for Test Block 4
[W]stop_median_delay_bl5[T]			CTP-H: Stop Signal: Median of Delay for Test Block 5
[W]stop_median_delay_bl6[T]			CTP-H: Stop Signal: Median of Delay for Test Block 6
[W]stop_go_rt_mean[T]			CTP-H: Stop Signal: Mean of Reaction Time Means
[W]stop_go_rtsd[T]			CTP-H: Stop Signal: Mean of SDs of Go Reaction Time of Correct Go Trials
[W]stop_go_perc_corr_bl3[T]			CTP-H: Stop Signal: % Correct Responses for Test Block 3
[W]stop_go_perc_corr_bl4[T]			CTP-H: Stop Signal: % Correct Responses for Test Block 4
[W]stop_go_perc_corr_bl5[T]			CTP-H: Stop Signal: % Correct Responses for Test Block 5
[W]stop_go_perc_corr_bl6[T]			CTP-H: Stop Signal: % Correct Responses for Test Block 6
[W]stop_go_perc_corr[T]			CTP-H: Stop Signal: Mean of % Correct Responses
[W]stop_ssrt_mean_bl3[T]			CTP-H: Stop Signal: SSRT Mean for Test Block 3
[W]stop_ssrt_mean_bl4[T]			CTP-H: Stop Signal: SSRT Mean for Test Block 4
[W]stop_ssrt_mean_bl5[T]			CTP-H: Stop Signal: SSRT Mean for Test Block 5
[W]stop_ssrt_mean_bl6[T]			CTP-H: Stop Signal: SSRT Mean for Test Block 6
[W]stop_ssrt[T]			CTP-H: Stop Signal: SSRT Mean
[W]stop_ssrt_median_bl3[T]			CTP-H: Stop Signal: SSRT Median for Test Block 3
[W]stop_ssrt_median_bl4[T]			CTP-H: Stop Signal: SSRT Median for Test Block 4
[W]stop_ssrt_median_bl5[T]			CTP-H: Stop Signal: SSRT Median for Test Block 5
[W]stop_ssrt_median_bl6[T]			CTP-H: Stop Signal: SSRT Median for Test Block 6

Stop Signal

Variable	Pseudocode	Format	Label
[W]stop_ssrt_median[T]			CTP-H: Stop Signal: SSRT Median
[W]stop_go_prac_diff_rt[T]	= stop_go_rt_mean minus stop_practice_rt_mean		CTP-H: Stop Signal: Mean of RT Means -minus- Mean of Practice RT
[W]stop_go_6_3_diff_rt[T]	= stop_go_rt_mean_bl6 minus stop_go_rt_mean_bl3		CTP-H: Stop Signal: Mean of Go Reaction Time of Correct Go Trials - Test Block 6 -minus- Test Block 3

Stop Signal variables that are not documented by pseudocode are calculated in SPSS code provided by Erik Willcutt, Ph.D. at University of Colorado at Boulder

TOWRE (Test of Word Reading Efficiency)

Variable	Pseudocode	Format	Label
[W]tswerw[T]			CTP-H: TOWRE Sight Word Efficiency - # of Words Read Correctly
[W]swetim[T]			CTP-H: TOWRE Sight Word Efficiency - Time to Finish (if < 45 seconds)
[W]tswest[T]			CTP-H: TOWRE Sight Word - Standardized
[W]tpderw[T]			CTP-H: TOWRE Phonemic Decoding - # of Words Read Correctly
[W]pdetim[T]			CTP-H: TOWRE Phonemic Decoding - Time to Finish (if < 45 seconds)
[W]tpdest[T]			CTP-H: TOWRE Phonemic Decoding - Standardized
[W]ttwrest[T]			CTP-H: TOWRE Total Word Reading Efficiency - Standardized
[W]tstsum[T]	= TSWEST + TPDEST		CTP-H: TOWRE Sum of Sight Word Std & Phonemic Decoding Std

WISC IV: Coding

Variable	Pseudocode	Format	Label
[W]wcrw[T]			CTP-H: WISC Coding: Calculated Total Raw Score
[W]wcst[T]			CTP-H: WISC Coding: Standardized Score

Woodcock Reading Mastery – Passage Comprehension

Variable	Pseudocode	Format	Label
[W]WJCOMPRW[T]			CTP-H: Woodcock Johnson Passage Comprehension - Raw Score
[W]WJCOMPRS[T]			CTP-H: Woodcock Johnson Passage Comprehension - R Score
[W]WJCOMPWS[T]			CTP-H: Woodcock Johnson Passage Comprehension - W Score
[W]WJCOMPST[T]			CTP-H: Woodcock Johnson Passage Comprehension - Standard Score
N[W]WJCOMPRW[T]			CTP-H: Residualized Woodcock Johnson Passage Comprehension - Total Score Raw

Woodcock Johnson – WJ Tests of Achievement - Revised (scored with WJ III NU software)

Variable	Pseudocode	Format	Label
[W]calcrw[T]			CTP-H: WJ 5 Calculation - Number Correct - Raw
[W]calcst[T]			CTP-H: WJ 5 Calculation - Standard Score
[W]calcws[T]			CTP-H: WJ 5 Calculation - W Score
n[W]CALCRW[T]	= CALCRW residualized for age, age squared, and sex		CTP-H:Residualized WJ 5 Calculation - Number Correct - Raw
x[W]CALCRW[T]	= CALCRW residualized for age, age squared, sex, # school months, and # school months squared		CTP-H:Residualized with schmnths WJ 5 Calculation - Number Correct - Raw
[W]flurw[T]			CTP-H: WJ 6 Math Fluency – Number Correct - Raw
[W]flust[T]			CTP-H: WJ 6 Math Fluency - Standard Score
[W]fluws[T]			CTP-H: WJ 6 Math Fluency - W Score
n[W]FLURW[T]	= FLURW residualized for age, age squared, and sex		CTP-H:Residualized WJ 6 Math Fluency – Number Correct - Raw
x[W]FLURW[T]	= FLURW residualized for age, age squared, sex, # school months, and # school months squared		CTP-H:Residualized with schmnths WJ 6 Math Fluency – Number Correct - Raw
[W]aprw[T]			CTP-H: WJ 10 Applied Problems - Number Correct - Raw
[W]apst[T]			CTP-H: WJ 10 Applied Problems - Standard Score
[W]apws[T]			CTP-H: WJ 10 Applied Problems - W Score
n[W]APRW[T]	= APRW residualized for age, age squared, and sex		CTP-H:Residualized WJ 10 Applied Problems - Number Correct - Raw
x[W]APRW[T]	= APRW residualized for age, age squared, sex, # school months, and # school months squared		CTP-H:Residualized with schmnths WJ 10 Applied Problems - Number Correct - Raw

Woodcock Johnson – WJ Tests of Achievement - Revised (scored with WJ III NU software)