

In Person: Cognition - Similarities

JCOGSIM Cognition - Similarities Module

OVERVIEW

The Cognition - Similarities Module, which was first administered during the 1993 collection wave and replicated in 2004, assesses cognitive ability using selected questions from the fourteen-item Weschler Adult Intelligence Scale (WAIS). WAIS items, which prompt participants to provide reasonable explanations for how two things are alike, adhere to the format, "in what way are [object #1] and [object #2] alike?" Eight items were asked of all participants in 1993, with between six and nine being administered in 2004 depending on random sub-sampling. For the 2011 collection wave, only the six WAIS items asked of all participants in 1993 and 2004 were included in the Cognition - Similarities Module; as in past waves, the simplest WAIS items were excluded pursuant to the assumption that the general ability of the WLS graduate cohort is high enough to make substantial variation in responses to simple items unlikely. The six included WAIS items called for participants to look for similarities between the things in the following sets: an orange and a banana; an eye and an ear; an egg and a seed; a table and a chair; a fly and a tree; and praise and punishment.

If the participant permitted their interviewer to record the CAPI interview, responses to WAIS items were transcribed verbatim after its completion. If, on the other hand, the participant refused permission to record, their responses to WAIS items were manually entered by the interviewer during administration of the Cognition - Similarities Module. For each item, the participant's similarity response was assigned a score between zero and two quantifying its reasonableness, with a "2" being the top score. If the participant indicated they did not know how two things were alike when asked a WAIS item - or simply made no specific guess - they were assigned a value of "-1" for that item, signifying "don't know." If our audio record's quality was not sufficient for deciphering the participant's response to an item, or if the participant misheard the question and was not corrected by the interviewer, they were assigned a value of "-4" and coded as "not ascertained." A six-item summary of the participant's performance in the Cognition - Similarities Module was generated by totaling their scores for each WAIS item, codes of "don't know" being treated as scores of "0"; items coded as "refused" (-3) or "not ascertained" (-4) did not contribute at all to the summary measure.

For more information about the nature of the Cognition - Similarities Module and our cognition data at prior collection waves, please see Appendix G; CORs 859 and 871, which outline the scoring and open-ended coding procedures used in 2004 (and 2011). Additionally, examples of 2-point, 1-point, and 0-point answers to each of the WAIS items can be found in cor970. No new documentation about the Cognition - Similarities Module was added to the appendix for the 2011 collection wave.

BRIEF VARIABLE DESCRIPTIONS

Variable ranges reference dataset/codebook order and are not necessarily alphabetical.

HSIMSTAT-HSIMREL: Module-Level Status Variables

Wisconsin Longitudinal Study Codebook

HI101RE:	6-Item Score Summarizing Participant's Performance on the WAIS Questions Selected for Inclusion in this Module
HI111RE:	Score for Participant's Response to 'In What Way Are an Orange and a Banana Alike?'
HI113RE:	Score for Participant's Response to 'In What Way Are an Eye and an Ear Alike?'
HI115RE:	Score for Participant's Response to 'In What Way Are an Egg and a Seed Alike?'
HI116RE:	Score for Participant's Response to 'In What Way Are a Table and a Chair Alike?'
HI118RE:	Score for Participant's Response to 'In What Way Are a Fly and a Tree Alike?'
HI119RE:	Score for Participant's Response to 'In What Way Are Praise and Punishment Alike?'

hsimstat: Was the Cognition - Similarities Module completed by Participant alone, with help, or by proxy?

Data source: Graduate Participant or Proxy Collected in: 2011 Mode: In person & telephone
 Source variables: y_simproxy1, y_simhelp0, capiproxy, y_proxy, and y_ivwloc

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2146	2019	4165
-30	NOT PART OF MOSAQ	68	116	184
-27	NOT ASKED OF PROXY	14	17	31
-4	NOT ASCERTAINED	1	0	1
1	R COMPLETED ALONE	2472	3024	5496
2	R COMPLETED ALONE WITH SOMEONE ELSE IN THE ROOM	285	148	433
3	R RECEIVED A LITTLE HELP	4	2	6
5	HELPER RESPONDED TO ALL ITEMS	1	0	1

Note: For many cases a participant's spouse or other family member was present during the interview. This sometimes resulted in the participant relying on the other person for help in answering some or many of the questions. At the end of each module the interviewer indicated the amount of help the participant

received and who provided that help. That assessment is covered by codes 1 through 5. Additionally, a code of 7 indicates that the entire interview was administered to a proxy while a code of 6 indicates that this particular module was answered by a proxy but other modules were answered by the participant.

hsimrel: Relationship of Cognition - Similarities Module helper or proxy to Participant.

Data source: Graduate Participant or Proxy Collected in: 2011 Mode: In person & telephone
 Source variables: hsimstat, y_simproxy1, y_simhelp0, y_simhelp1, y_simhelp2_hfn, y_simhelp3, y_h1fn to y_h4fn, y_pfn, prxyfnam, y_p1fn to y_p5fn, y_prel, prxyrel, and y_p1rel to y_p5rel

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2146	2019	4165
-30	NOT PART OF MOSAQ	68	116	184
-27	NOT ASKED OF PROXY	14	17	31
-4	NOT ASCERTAINED	1	0	1
-2	Inappropriate Inap, (Sampled skip or hsimstat=1,2,-3)	2757	3172	5929
0	SPOUSE	5	1	6
8	DAUGHTER	0	1	1

Note: If this module was administered via proxy or if the participant received help answering the questions in this module then we record the relationship of the proxy/helper to the participant. Although most participants relied on only one helper or proxy for the interview, some had more than one. Thus the value of the relationship code may vary across the modules.

hi101re: 6-item score summarizing Participant’s performance on Weschler Adult Intelligence Scale (WAIS) questions selected for inclusion in the Cognition - Similarities Module.

Data source: Graduate Participant or Proxy Collected in: 2011 Mode: In person & telephone
 Source variables: hi111re, hi113re, hi115re, hi116re, hi118re, hi119re

Wisconsin Longitudinal Study Codebook

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2146	2019	4165
-30	NOT PART OF MOSAQ	68	116	184
-27	NOT ASKED OF PROXY	14	17	31
-4	NOT ASCERTAINED	57	64	121
0	LOWEST SCORE POSSIBLE	14	12	26
1		25	21	46
2		85	118	203
3		216	217	433
4		292	339	631
5		389	494	883
6		404	496	900
7		418	485	903
8		345	396	741
9		241	278	519
10		165	151	316
11		89	82	171
12	HIGHEST SCORE POSSIBLE	23	21	44

Note: Although the Weschler Adult Intelligence Scale (WAIS) is comprised of fourteen items, only six were asked as part of the 2011 CAPI interview; to be asked in 2011, a WAIS item had to have been previously administered to all participants during both the 1993 and 2004 collection waves. The six-item score furnished by this variable replicates GI101RE from the 2004 wave and RI001RE from the 1993 wave, although the latter summarizes performance on eight WAIS items instead of six.

Note: This variable provides the sum of the participant's scores at HI111RE, HI113RE, HI115RE, HI116RE, HI118RE, and HI119RE, all of which correspond to a WAIS item. Codes of "don't know" (-1) at individual items were treated as scores of "0" when calculating this summary score and items coded as "refused" (-3) or "not ascertained" (-4) were excluded prior to summing. If all six items have a code of "refused" or "not ascertained," this variable has been assigned a value of "-4", signifying "not ascertained." For information on how codes and scores were assigned to variables in the Cognition - Similarities Module, please see CORs 859, 871, and 970.

hi11re: Score for Participant's response to 'In what way are an orange and a banana alike?'

Data source: Graduate Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: y_recordon, y_i13p1s, y_i13p1

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2146	2019	4165
-30	NOT PART OF MOSAQ	68	116	184
-27	NOT ASKED OF PROXY	14	17	31
-4	NOT ASCERTAINED	60	63	123
-3	REFUSED	6	3	9
-1	DON'T KNOW	7	5	12
0	0-POINT ANSWER	25	18	43
1	1-POINT ANSWER	262	170	432
2	2-POINT ANSWER	2403	2915	5318

Note: This variable replicates GI111RE from the 2004 collection wave and RI002RE from the 1993 wave. If the participant indicated they did not know how an orange and a banana are alike - or simply made no specific guess - they were assigned a value of "-1" on this variable, signifying "don't know." If our audio record's quality was not sufficient for deciphering the participant's response to this item, or if the participant misheard the question and was not corrected by the interviewer, they were assigned a value of "-4" and coded as "not ascertained." For information on how codes and scores were assigned to variables in the Cognition - Similarities Module, please see CORs 859, 871, and 970.

hi113re: Score for Participant's response to 'In what way are an eye and an ear alike?'

Data source: Graduate Participant or Proxy Collected in: 2011 Mode: In person & telephone
Source variables: y_recordon, y_i13p4s, y_i13p4

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2146	2019	4165
-30	NOT PART OF MOSAQ	68	116	184
-27	NOT ASKED OF PROXY	14	17	31
-4	NOT ASCERTAINED	60	71	131
-3	REFUSED	6	4	10
-1	DON'T KNOW	41	33	74
0	0-POINT ANSWER	351	329	680
1	1-POINT ANSWER	1277	1584	2861
2	2-POINT ANSWER	1028	1153	2181

Note: This variable replicates GI113RE from the 2004 collection wave and RI004RE from the 1993 wave. If the participant indicated they did not know how an eye and an ear are alike - or simply made no specific guess - they were assigned a value of "-1" on this variable, signifying "don't know." If our audio record's quality was not sufficient for deciphering the participant's response to this item, or if the participant misheard the question and was not corrected by the interviewer, they were assigned a value of "-4" and coded as "not ascertained." For information on how codes and scores were assigned to variables in the Cognition - Similarities Module, please see CORs 859, 871, and 970.

hi115re: Score for Participant's response to 'In what way are an egg and a seed alike?'

Data source: Graduate Participant or Proxy Collected in: 2011 Mode: In person & telephone
 Source variables: y_recordon, y_i13p6s, y_i13p6

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2146	2019	4165
-30	NOT PART OF MOSAQ	68	116	184
-27	NOT ASKED OF PROXY	14	17	31
-4	NOT ASCERTAINED	69	76	145
-3	REFUSED	7	7	14
-1	DON'T KNOW	200	277	477
0	0-POINT ANSWER	483	756	1239
1	1-POINT ANSWER	1310	1525	2835
2	2-POINT ANSWER	694	533	1227

Note: This variable replicates GI115RE from the 2004 collection wave and RI005RE from the 1993 wave. If the participant indicated they did not know how an egg and a seed are alike - or simply made no specific guess - they were assigned a value of "-1" on this variable, signifying "don't know." If our audio record's quality was not sufficient for deciphering the participant's response to this item, or if the participant misheard the question and was not corrected by the interviewer, they were assigned a value of "-4" and coded as "not ascertained." For information on how codes and scores were assigned to variables in the Cognition - Similarities Module, please see CORs 859, 871, and 970.

hi116re: Score for Participant's response to 'In what way are a table and a chair alike?'

Data source: Graduate Participant or Proxy Collected in: 2011 Mode: In person & telephone
 Source variables: y_recordon, y_i13p7s, y_i13p7

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2146	2019	4165
-30	NOT PART OF MOSAQ	68	116	184
-27	NOT ASKED OF PROXY	14	17	31
-4	NOT ASCERTAINED	58	68	126
-3	REFUSED	7	6	13
-1	DON'T KNOW	35	28	63
0	0-POINT ANSWER	912	929	1841
1	1-POINT ANSWER	743	736	1479
2	2-POINT ANSWER	1008	1407	2415

Note: This variable replicates GI116RE from the 2004 collection wave and RI003RE from the 1993 wave. If the participant indicated they did not know how a table and a chair are alike - or simply made no specific guess - they were assigned a value of "-1" on this variable, signifying "don't know." If our audio record's quality was not sufficient for deciphering the participant's response to this item, or if the participant misheard the question and was not corrected by the interviewer, they were assigned a value of "-4" and coded as "not ascertained." For information on how codes and scores were assigned to variables in the Cognition - Similarities Module, please see CORs 859, 871, and 970.

hi118re: Score for Participant's response to 'In what way are a fly and a tree alike?'

Data source: Graduate Participant or Proxy Collected in: 2011 Mode: In person & telephone
 Source variables: y_recordon, y_i13p9s, y_i13p9

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2146	2019	4165
-30	NOT PART OF MOSAQ	68	116	184
-27	NOT ASKED OF PROXY	14	17	31
-4	NOT ASCERTAINED	65	72	137
-3	REFUSED	8	7	15
-1	DON'T KNOW	873	704	1577
0	0-POINT ANSWER	930	1359	2289
1	1-POINT ANSWER	261	408	669
2	2-POINT ANSWER	626	624	1250

Note: This variable replicates GI118RE from the 2004 collection wave and RI008RE from the 1993 wave. If the participant indicated they did not know how a fly and a tree are alike - or simply made no specific guess - they were assigned a value of "-1" on this variable, signifying "don't know." If our audio record's quality was not sufficient for deciphering the participant's response to this item, or if the participant misheard the question and was not corrected by the interviewer, they were assigned a value of "-4" and coded as "not ascertained." For information on how codes and scores were assigned to variables in the Cognition - Similarities Module, please see CORs 859, 871, and 970.

hi119re: Score for Participant's response to 'In what way are praise and punishment alike?'

Data source: Graduate Participant or Proxy Collected in: 2011 Mode: In person & telephone
 Source variables: y_recordon, y_i13p10s, y_i13p10

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2146	2019	4165
-30	NOT PART OF MOSAQ	68	116	184
-27	NOT ASKED OF PROXY	14	17	31
-4	NOT ASCERTAINED	64	69	133
-3	REFUSED	7	7	14
-1	DON'T KNOW	231	241	472
0	0-POINT ANSWER	1351	1712	3063
1	1-POINT ANSWER	451	538	989
2	2-POINT ANSWER	659	607	1266

Note: This variable replicates GI119RE from the 2004 collection wave and RI009RE from the 1993 wave. If the participant indicated they did not know how praise and punishment are alike - or simply made no specific guess - they were assigned a value of "-1" on this variable, signifying "don't know." If our audio record's quality was not sufficient for deciphering the participant's response to this item, or if the participant misheard the question and was not corrected by the interviewer, they were assigned a value of "-4" and coded as "not ascertained." For information on how codes and scores were assigned to variables in the Cognition - Similarities Module, please see CORs 859, 871, and 970.

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