

In Person: Cognition - Similarities

KCOGSIM Cognition - Similarities Module

OVERVIEW

The Cognition - Similarities Module, which was first administered during the 1994 collection wave and replicated in 2005, 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?" Ten items were asked of all sibling participants in 1994, with between six and nine being administered in 2005 depending on random sub-sampling. For the 2011 collection wave, only the six WAIS items asked of all participants in 1994 and 2005 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 sample 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 2005 (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.

KSIMSTAT-KSIMREL: Module-Level Status Variables

Wisconsin Longitudinal Study Codebook

KI101RE:	6-Item Score Summarizing Participant's Performance on the WAIS Questions Selected for Inclusion in this Module
KI111RE:	Score for Participant's Response to 'In What Way Are an Orange and a Banana Alike?'
KI113RE:	Score for Participant's Response to 'In What Way Are an Eye and an Ear Alike?'
KI115RE:	Score for Participant's Response to 'In What Way Are an Egg and a Seed Alike?'
KI116RE:	Score for Participant's Response to 'In What Way Are a Table and a Chair Alike?'
KI118RE:	Score for Participant's Response to 'In What Way Are a Fly and a Tree Alike?'
KI119RE:	Score for Participant's Response to 'In What Way Are Praise and Punishment Alike?'

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

Data source: Sibling 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	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
1	R COMPLETED ALONE	1447	1676	3123
2	R COMPLETED ALONE WITH SOMEONE ELSE IN THE ROOM	167	78	245
3	R RECEIVED A LITTLE HELP	6	1	7
4	R RECEIVED A LOT OF HELP	2	1	3

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.

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

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
 Source variables: ksimstat, 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	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
-2	Inappropriate Inap, (Sampled skip or ksimstat=1,2,-3)	1614	1754	3368
0	SPOUSE	8	2	10

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.

ki101re: 6-item score summarizing Participant’s performance on Weschler Adult Intelligence Scale (WAIS) questions selected for inclusion in the Cognition - Similarities Module.

Data source: Sibling Participant or Proxy Collected in: 2011 Mode: In person & telephone
 Source variables: ki111re, ki113re, ki115re, ki116re, ki118re, ki119re

Wisconsin Longitudinal Study Codebook

Value	Label	Frequencies		
		Male	Female	Total
.	System missing - NR	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
-4	NOT ASCERTAINED	34	30	64
0	LOWEST SCORE POSSIBLE	6	4	10
1		14	16	30
2		39	48	87
3		109	117	226
4		152	168	320
5		252	267	519
6		237	296	533
7		245	260	505
8		197	234	431
9		166	172	338
10		103	94	197
11		45	36	81
12	HIGHEST SCORE POSSIBLE	23	14	37

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 1994 and 2005 collection waves. The six-item score furnished by this variable replicates CI101RE from the 2005 wave and SI001RE from the 1994 wave, although the latter summarizes performance on ten WAIS items instead of six.

Note: This variable provides the sum of the participant's scores at KI111RE, KI113RE, KI115RE, KI116RE, KI118RE, and KI119RE, 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.

ki11re: Score for Participant's response to 'In what way are an orange and a banana alike?'

Data source: Sibling 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	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
-4	NOT ASCERTAINED	30	32	62
-3	REFUSED	6	1	7
-1	DON'T KNOW	5	3	8
0	0-POINT ANSWER	9	7	16
1	1-POINT ANSWER	129	109	238
2	2-POINT ANSWER	1443	1604	3047

Note: This variable replicates CI11RE from the 2005 collection wave and SI002RE from the 1994 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.

ki113re: Score for Participant's response to 'In what way are an eye and an ear alike?'

Data source: Sibling 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	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
-4	NOT ASCERTAINED	30	37	67
-3	REFUSED	6	1	7
-1	DON'T KNOW	21	7	28
0	0-POINT ANSWER	167	167	334
1	1-POINT ANSWER	782	916	1698
2	2-POINT ANSWER	616	628	1244

Note: This variable replicates CI113RE from the 2005 collection wave and SI004RE from the 1994 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.

ki15re: Score for Participant's response to 'In what way are an egg and a seed alike?'

Data source: Sibling 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	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
-4	NOT ASCERTAINED	36	41	77
-3	REFUSED	6	1	7
-1	DON'T KNOW	92	144	236
0	0-POINT ANSWER	281	379	660
1	1-POINT ANSWER	774	858	1632
2	2-POINT ANSWER	433	333	766

Note: This variable replicates CI115RE from the 2005 collection wave and SI006RE from the 1994 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.

ki116re: Score for Participant's response to 'In what way are a table and a chair alike?'

Data source: Sibling 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	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
-4	NOT ASCERTAINED	33	33	66
-3	REFUSED	6	3	9
-1	DON'T KNOW	26	15	41
0	0-POINT ANSWER	551	508	1059
1	1-POINT ANSWER	362	371	733
2	2-POINT ANSWER	644	826	1470

Note: This variable replicates CI116RE from the 2005 collection wave and SI007RE from the 1994 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.

ki118re: Score for Participant's response to 'In what way are a fly and a tree alike?'

Data source: Sibling 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	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
-4	NOT ASCERTAINED	37	36	73
-3	REFUSED	6	3	9
-1	DON'T KNOW	453	374	827
0	0-POINT ANSWER	559	757	1316
1	1-POINT ANSWER	166	230	396
2	2-POINT ANSWER	401	356	757

Note: This variable replicates CI118RE from the 2005 collection wave and SI010RE from the 1994 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.

ki119re: Score for Participant's response to 'In what way are praise and punishment alike?'

Data source: Sibling 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	2736	2510	5246
-30	NOT PART OF MOSAQ	72	63	135
-27	NOT ASKED OF PROXY	7	12	19
-4	NOT ASCERTAINED	39	39	78
-3	REFUSED	7	3	10
-1	DON'T KNOW	129	120	249
0	0-POINT ANSWER	809	930	1739
1	1-POINT ANSWER	268	316	584
2	2-POINT ANSWER	370	348	718

Note: This variable replicates CI119RE from the 2005 collection wave and SI011RE from the 1994 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.

Table of Contents

In Person: Cognition - Similarities	1
ksimstat: Was the Cognition - Similarities Module completed by Participant alone, with help, or by proxy?	2
ksimrel: Relationship of Cognition - Similarities Module helper or proxy to Participant.	3
ki101re: 6-item score summarizing Participant's performance on Weschler Adult Intelligence Scale (WAIS) questions selected for inclusion in the Cognition - Similarities Module.	3
ki111re: Score for Participant's response to 'In what way are an orange and a banana alike?'	5
ki113re: Score for Participant's response to 'In what way are an eye and an ear alike?'	5
ki115re: Score for Participant's response to 'In what way are an egg and a seed alike?'	6
ki116re: Score for Participant's response to 'In what way are a table and a chair alike?'	7
ki118re: Score for Participant's response to 'In what way are a fly and a tree alike?'	8
ki119re: Score for Participant's response to 'In what way are praise and punishment alike?'	9