SOEP Survey Papers

SOEP-Core v36 – COGDJ

SOEP Group

DIW SOEP

Running since 1984, the German Socio-Economic Panel (SOEP) is a wide-ranging representative longitudinal study of private households, located at the German Institute for Economic Research, DIW Berlin.

The aim of the SOEP Survey Papers Series is to thoroughly document the survey's data collection and data processing. The SOEP Survey Papers is comprised of the following series:

Series A – Survey Instruments (Erhebungsinstrumente)
Series B – Survey Reports (Methodenberichte)
Series C – Data Documentation (Datendokumentationen)
Series D – Variable Descriptions and Coding
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SOEP-Core v36 – COGDJ

SOEP Group

2021

Contents

1 Introduction

In 2006, SOEP introduced a cognition test for adolescents as part of the SOEP's survey instruments. Since then, the test has been conducted annually with each new cohort of 17-year-old. To investigate the cognitive performance potential of the adolescents, we developed a questionnaire based on the I-S-T 2000 test (Amthauer, Brocke, Liepmann & Beauducel, 2001), which is suitable for an individual panel survey. The modifications were described in detail by Solga et al (2005). The cognitive test measures the cognitive mechanics of the 17-year-old in three different modules (word analogies, arithmetic operator, and matrices). Cognitive mechanics refers to the hard-wired, biologically based information processing skills. The task set "Word Analogies" measures the verbal cognitive potential of the respondents. The respondents are asked to assign words to a given word sequence according to a certain rule. The test uses a person's vocabulary to measure combinatorics. The "arithmetic operator" measures the numerical cognitive potential of the respondents. These tasks focus primarily on the young person's abstract combinatorial ability and logical thinking. The "Matrices" task set measures the respondents' figural cognitive abilities.

The design and structure of the questionnaire require that the cognition test is conducted by an interviewer and that the time is monitored. The interviewer-supported survey is mandatory. Further information can be found in Schupp and Herrmann (2009) and Richter et al (2017).

References:

Amthauer, R., Brocke, B., Liepmann, D., & Beauducel, A. (2001). Intelligenz-Struktur-Test 2000 R (I-S- T 2000 R) Handanweisung. Göttingen: Hogrefe.

Solga, H., Stern, E., von Rosenbladt, B., Schupp, J., & Wagner, G. G. (2005). The measurement and importance of general reasoning potentials in schools and labour markets. Berlin: DIW Berlin.

Richter, D., Rohrer, J., Metzing, M., Nestler, W., Weinhardt, M., Schupp, J. (2017). SOEP Scales Manual (updated for SOEP-Core v32.1). SOEPSurvey Papers 423: Series C. Berlin: DIW/SOEP.

Schupp, J., & Herrmann, S. (2009). Kognitionspotenziale Jugendlicher. Ergänzung zum Jugendfragebogen der Längsschnittstudie Sozio-oekonomisches Panel (SOEP). Berlin: DIW Berlin.

2 Identifier Variables

syear – Survey Year

2006	835
2007	295
2008	222
2009	211
2010	190
2011	155
2012	189
2013	228
2014	302
2015	253
2016	236
2017	229
2018	245

2019   209

This variable is used to assign the survey year. The first year in this dataset is 2006.

hhnr – Original Household Number

60	1
981	2
1139	1
1341	4
1481	1
1554	1
1872	4
1929	3
2011	2
2020	2
2054	3
2267	2
2356	2
2429	2
2747	3
… (2633 rows omitted)	3750
3459968	1
3460958	1
3464678	1
3464805	2
3466026	1
3466867	1
3467740	1
3472115	1
3472492	1
3474444	1
3475815	1
3483346	1
3488925	1
3494429	1
3496324	1

This variable identifies the respondent as living in a particular household at the time of the survey and is used to link to different data sets.

persnr – Never Changing Person ID

9804	1
9805	1
11303	1
13404	1
13405	1
13406	1
13407	1

18703	1
18704	1
18705	1
18706	1
19204	1
19205	1
19206	1
20105	1
... (3769 rows omitted)	3769
34677403	1
34721102	1
34724903	1
34744403	1
34758103	1
34833404	1
34889203	1
34944204	1
34963203	1
35000304	1
35010803	1
35014305	1
35025602	1
35031204	1
35031205	1

This variable identifies the respondent as living in a particular household at the time of the survey and is used to link to different data sets.

djstat – Status Of Partitipation

1	Questionnaire Missing	3465
2	Chosen Without Interview - No Participation	115
3	Dj-Questionnaire Refused	219
-1	No Answer	0
-2	Does not apply	0
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

This variable is used to determine whether the interviewee in the sample participated in the DJ survey and which reasons for non-participation played a role.

3 Generated Variables

This section provides information on the school type and the sum scores for the three modules: analogies, arithmetic operators, and matrices. Sum scores are generated for all right, wrong and unanswered questions.

schule – Educational Partitipation

1	No Degree, No School Attendence	19
2	Other Degree	6
3	Other School, continued education	2
4	Secondary General School Attendence	286
5	Secondary School Degree	342
6	Comprehensive School Attendence	339
7	Intermediate School Attendence	720
8	Intermediate School Degree	430
9	Technical HighSchool Attendence	19
10	Technical School Degree	12
11	Upper Secondary School Attendence	1460
12	Upper Secondary School Degree	8
13	Vocational School Attendence	33
14	Technical Collegel Attendence	1
15	University Attendence	2
21	Former Secondary General School According To Mother	57
22	Former Intermediate School According To Mother	48
23	Former Upper School According To Mother	12
-1	No Answer	3
-2	Does not apply	0
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

This variable intends to record in as differentiated a form as possible which type of school the interviewees attend or which educational qualifications they have at the time of the survey.

sumindex – Sumindex From all given Answers

8	2
11	2
13	4
14	2
15	1
16	1
17	3
18	3
19	2
20	4
21	3
22	4
23	2
24	4
25	7
… (27 rows omitted)	1297
53	162

54	152
55	150
56	206
57	187
58	216
59	328
60	723
-1 No Answer	0
-2 Does not apply	334
-3 Answer improbable	0
-4 Inadmissible multiple response	0
-5 Not included in this version of the questionnaire	0
-6 Version of questionnaire with modified filtering	0
-7 Only available in less restricted edition	0

This variable contains the sum of all given answers regardless of their correctness from all three question categories of the DJ Questionnaire.

indexa2 – Sumindex From Answers In Taskgroup No. 2 - Analogies

1	3
2	1
3	1
4	1
5	2
6	3
7	2
8	4
9	5
10	10
11	22
12	23
13	34
14	60
15	71
16	101
17	121
18	207
19	553
20	2233
-1 No Answer	9
-2 Does not apply	333
-3 Answer improbable	0
-4 Inadmissible multiple response	0
-5 Not included in this version of the questionnaire	0
-6 Version of questionnaire with modified filtering	0
-7 Only available in less restricted edition	0

This variable contains the sum of all given answers regardless of their correctness from the question category "Analogies".

indexa6 – sumindes From Answers In Taskgroups No. 6 - Arithmetic Operator

1		12
2		36
3		29
4		39
5		48
6		45
7		53
8		64
9		77
10		93
11		102
12		122
13		158
14		178
15		184
16		218
17		204
18		241
19		321
20		1209
-1	No Answer	33
-2	Does not apply	333
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

This variable contains the sum of all given answers independent of their correctness from the question category "arithmetic operator".

indexa9 – Sumindex From Answers Taskgroup No. 9 - Figures

1		2
2		2
3		9
4		8
5		10
6		15
7		28
8		20
9		31
10		34
11		45
12		77
13		96
14		115
15		152

16		210
17		177
18		200
19		315
20		1903
-1	No Answer	17
-2	Does not apply	333
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

This variable contains the sum of all given answers regardless of their correctness from the question category "matrices".

sdindex – complete Sumindex deductive thinking - Right Answers

3		3
4		2
5		3
6		3
7		10
8		4
9		16
10		15
11		22
12		26
13		35
14		48
15		54
16		46
17		49
...	(29 rows omitted)	2954
47		35
48		32
49		23
50		9
51		9
52		7
53		7
55		2
-1	No Answer	52
-2	Does not apply	333
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

This variable contains the sum of all correct answers in all three categories.

analog – Sumindex Right Answers In Taskgroup No. 2 - Analogies

0	2
1	31
2	109
3	213
4	281
5	307
6	289
7	308
8	333
9	329
10	297
11	274
12	221
13	182
14	124
15	70
16	55
17	23
18	6
19	2
20	1
-1	9
-2	333

This variable contains the sum of all correct answers in the category "Analogies".

ianalog – Sumindex Wrong Answers In Taskgroup No. 2 - Analogies

0	7
1	10
2	29
3	47
4	103
5	118
6	197
7	243
8	270
9	286
10	293
11	321
12	292
13	269
14	256
15	259
16	235
17	147

18	68
19	7
-1 No Answer	9
-2 Does not apply	333
-3 Answer improbable	0
-4 Inadmissible multiple response	0
-5 Not included in this version of the questionnaire	0
-6 Version of questionnaire with modified filtering	0
-7 Only available in less restricted edition	0

This variable contains the sum of all wrong answers in the category "Analogies".

fanalog – Sumindex Not Given Answers In Taskgroup No. 2 - Analogies

0	2563
1	553
2	207
3	121
4	101
5	71
6	60
7	34
8	23
9	22
10	10
11	5
12	4
13	2
14	3
15	2
16	1
17	1
18	1
19	3
20	12

This variable contains the sum of all unanswered tasks in the category "Analogies".

rechenz – Sumindex Right Answers In Taskgroup No. 6 - Arithmetic Operator

0	4
1	21
2	71
3	72
4	70
5	103
6	121
7	132
8	147
9	185

10		204
11		228
12		253
13		222
14		267
15		255
16		229
17		198
18		167
19		221
20		263
-1	No Answer	33
-2	Does not apply	333
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

This variable contains the sum of all correct answers in the category "Arithmetic Operator".

irechenz – Sumindex Wrong Answers In Taskgroup No. 6 - Arithmetic Operator

0		1021
1		604
2		375
3		235
4		199
5		198
6		132
7		114
8		105
9		104
10		69
11		54
12		52
13		52
14		39
15		35
16		26
17		11
18		7
20		1
-1	No Answer	33
-2	Does not apply	333
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

This variable contains the sum of all wrong answers in the category "Arithmetic Operator".

frechenz – Sumindex Not Given Answers In Taskgroup No. 6 - Arithmetic Operator

0	1540
1	321
2	241
3	204
4	217
5	184
6	178
7	158
8	122
9	102
10	93
11	77
12	64
13	53
14	45
15	48
16	39
17	29
18	36
19	12
20	36

This variable contains the sum of all unanswered tasks in the category "Arithmetic Operator".

matrize – Sumindex Right Answers In Taskgroup No. 9 - Figures

0	9
1	30
2	42
3	71
4	109
5	146
6	207
7	247
8	304
9	341
10	423
11	390
12	378
13	276
14	214
15	132
16	90
17	28
18	9
19	2

20		1
-1	No Answer	17
-2	Does not apply	333
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

This variable contains the sum of all correct answers in the category "Matrices".

imatrize – Sumindex Wrong Answers In Taskgroup No. 9 - Figures

0		34
1		68
2		135
3		203
4		244
5		297
6		277
7		312
8		334
9		300
10		288
11		240
12		209
13		165
14		133
15		86
16		64
17		37
18		14
19		6
20		3
-1	No Answer	17
-2	Does not apply	333
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

This variable contains the sum of all wrong answers in the category "Matrices".

fmatrize – Sumindex Not Given Answers In Taskgroup No. 9 - Figures

0	2234
1	315
2	200
3	177

4	210
5	152
6	115
7	96
8	77
9	44
10	34
11	31
12	20
13	28
14	15
15	10
16	8
17	9
18	2
19	2
20	20

This variable contains the sum of all unanswered tasks in the category "Matrices".

4 Task 1: Analogies

These questions are designed to assess verbal cognitive potential. The respondents are asked to assign words to a given word sequence based on a certain rule. The test uses a person's vocabulary to measure combinatorics.

a_21 – Row 1 Analogoy Task

0	Wrong Answer	116
1	Right Answer	3286
-1	No Answer	67
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

klein : groß = kurz : lang (small : large = short : long)

a_22 – Row 2 Analogoy Task

0	Wrong Answer	275
1	Right Answer	3087
-1	No Answer	107
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0

-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Vorsicht : Sicherheit = Risiko : Gefahr (caution : safety = risk : danger)

a_23 – Row 3 Analogoy Task

0	Wrong Answer	1350
1	Right Answer	2051
-1	No Answer	68
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

atmen : Lungen = schwitzen : Poren (breathe : lungs = sweat : pores)

a_24 – Row 4 Analogoy Task

0	Wrong Answer	2032
1	Right Answer	1319
-1	No Answer	118
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Treppe : Leiter = Haus : Zelt (stairs : ladder = house : tent)

a_25 – Row 5 Analogoy Task

0	Wrong Answer	1047
1	Right Answer	2298
-1	No Answer	124
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Vertrauen : Experte = Unsicherheit : Anfänger (trust : expert = insecurity : beginner)

a_26 – Row 6 Analogoy Task

0	Wrong Answer	1198
1	Right Answer	2222
-1	No Answer	49
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Gramm : Gewicht = Stunde : Zeit (gram : weight = hour : time)

a_27 – Row 7 Analogoy Task

0	Wrong Answer	1355
1	Right Answer	2026
-1	No Answer	88
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Milch : Volumen = Salz : Gewicht (milk : volume = salt : weight)

a_28 – Row 8 Analogoy Task

0	Wrong Answer	2075
1	Right Answer	1315
-1	No Answer	79
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Mensch : Gehirn = Stadt : Verwaltung (human : brain = city : administration)

a_29 – Row 9 Analogoy Task

0	Wrong Answer	1746
1	Right Answer	1443
-1	No Answer	280
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0

-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Wasser : Erosion = Alter : Falten (water : erosion = age : wrinkles)

a_30 – Row 10 Analogoy Task

0	Wrong Answer	1479
1	Right Answer	1935
-1	No Answer	55
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Album : Foto = Zeitung : Artikel (album : photo = newspaper : article)

a_31 – Row 11 Analogoy Task

0	Wrong Answer	1969
1	Right Answer	1261
-1	No Answer	239
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Maschine : Pflanze = Auto : Eiche (machine : plant = car : oak)

a_32 – Row 12 Analogoy Task

0	Wrong Answer	2380
1	Right Answer	861
-1	No Answer	228
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

chronisch : akut = dauernd : zeitweilig (chronic : acute = permanent : temporary)

a_33 – Row 13 Analogoy Task

0	Wrong Answer	1962
1	Right Answer	949
-1	No Answer	558
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Atheist : Religion = Pazifist : Krieg (atheist : religion = pacifist : war)

a_34 – Row 14 Analogoy Task

0	Wrong Answer	2392
1	Right Answer	793
-1	No Answer	284
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

mutig : verwegen = großzügig : verschwenderisch (brave : daring = generous : lavish)

a_35 – Row 15 Analogoy Task

0	Wrong Answer	2732
1	Right Answer	547
-1	No Answer	190
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Nerv : Leitung = Pupille : Blende (nerve : conduction = pupil : aperture)

a_36 – Row 16 Analogoy Task

0	Wrong Answer	2638
1	Right Answer	704
-1	No Answer	127
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0

-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Diät : Gewicht = Medikament : Schmerzen (diet : weight = medicine : pain)

a_37 – Row 17 Analogoy Task

0	Wrong Answer	2547
1	Right Answer	648
-1	No Answer	274
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Sammlung : Anhäufung = Buch : Wörterbuch (collection : accumulation = book : dictionary)

a_38 – Row 18 Analogoy Task

0	Wrong Answer	2670
1	Right Answer	561
-1	No Answer	238
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Freude : Erfolg = Müdigkeit : Arbeit (joy : success = fatigue : work)

a_39 – Row 19 Analogoy Task

0	Wrong Answer	2637
1	Right Answer	487
-1	No Answer	345
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Eis : Eisen = Wasser : Quecksilber (ice : iron = water : mercury)

a_40 – Row 20 Analogoy Task

0	Wrong Answer	2775
1	Right Answer	494
-1	No Answer	200
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

Haus : Treppe = Fluss : Schleuse (house : stairs = river : water lock)

5 Task 2: Arithmetic Operator

The "arithmetic operator" measures the numerical cognitive potential of the respondents. These tasks focus primarily on the young person's abstract combinatorial ability and logical thinking.

b_101 – Row 1 Task Arithmetic Operator

0	Wrong Answer	22
1	Right Answer	3372
-1	No Answer	75
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

$5 + 12 = 17$

b_102 – Row 2 Task Arithmetic Operator

0	Wrong Answer	64
1	Right Answer	3278
-1	No Answer	127
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

$323 - 89 = 234$

b_103 – Row 3 Task Arithmetic Operator

0	Wrong Answer	333
1	Right Answer	2819
-1	No Answer	317
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

$14 + 8 \times 3 = 66$

b_104 – Row 4 Task Arithmetic Operator

0	Wrong Answer	521
1	Right Answer	2532
-1	No Answer	416
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

$121 - 10 \times 8 = 888$

b_105 – Row 5 Task Arithmetic Operator

0	Wrong Answer	324
1	Right Answer	2873
-1	No Answer	272
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

$9 - 3 \times 5 = 30$

b_106 – Row 6 Task Arithmetic Operator

0	Wrong Answer	501
1	Right Answer	2478
-1	No Answer	490
-2	Does not apply	330
-3	Answer improbable	0

-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

12 x 5 - 15 = 45

b_107 – Row 7 Task Arithmetic Operator

0	Wrong Answer	591
1	Right Answer	2287
-1	No Answer	591
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

68 + 32 : 4 = 25

b_108 – Row 8 Task Arithmetic Operator

0	Wrong Answer	516
1	Right Answer	2505
-1	No Answer	448
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

9 x 7 + 14 = 77

b_109 – Row 9 Task Arithmetic Operator

0	Wrong Answer	465
1	Right Answer	2508
-1	No Answer	496
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

972 - 18 - 6 = 948

b_110 – Row 10 Task Arithmetic Operator

0	Wrong Answer	609
1	Right Answer	2210
-1	No Answer	650
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

1462 + 1817 + 32 = 3311

b_111 – Row 11 Task Arithmetic Operator

0	Wrong Answer	680
1	Right Answer	2112
-1	No Answer	677
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

7684 - 6123 + 4 1565

b_112 – Row 12 Task Arithmetic Operator

0	Wrong Answer	432
1	Right Answer	2420
-1	No Answer	617
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

69 + 12 + 144 = 225

b_113 – Row 13 Task Arithmetic Operator

0	Wrong Answer	644
1	Right Answer	2074
-1	No Answer	751
-2	Does not apply	330
-3	Answer improbable	0

-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

273 - 129 - 12 = 132

b_114 – Row 14 Task Arithmetic Operator

0	Wrong Answer	812
1	Right Answer	1685
-1	No Answer	972
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

10119 - 9950 : 13 = 13

b_115 – Row 15 Task Arithmetic Operator

0	Wrong Answer	511
1	Right Answer	2033
-1	No Answer	925
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

2216 - 1006 : 2 = 605

b_116 – Row 16 Task Arithmetic Operator

0	Wrong Answer	902
1	Right Answer	1729
-1	No Answer	838
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

26 + 3 x 5 = 145

b_117 – Row 17 Task Arithmetic Operator

0	Wrong Answer	909
1	Right Answer	1275
-1	No Answer	1284
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

2142 : 7 : 9 = 34

b_118 – Row 18 Task Arithmetic Operator

0	Wrong Answer	1109
1	Right Answer	942
-1	No Answer	1417
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

412 + 15 : 7 = 61

b_119 – Row 19 Task Arithmetic Operator

0	Wrong Answer	938
1	Right Answer	916
-1	No Answer	1614
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

133 : 19 + 43 = 50

b_120 – Row 20 Task Arithmetic Operator

0	Wrong Answer	732
1	Right Answer	1145
-1	No Answer	1591
-2	Does not apply	331
-3	Answer improbable	0

-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

5500 : 20 + 3105 = 3380

6 Task 3: Matrices

The "Matrices" task set measures the respondents' figural cognitive abilities.

a_161 – Row 1 Task Figures

0	Wrong Answer	199
1	Right Answer	3223
-1	No Answer	47
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 3rd symbol corresponds to the correct solution.

a_162 – Row 2 Task Figures

0	Wrong Answer	1211
1	Right Answer	2190
-1	No Answer	67
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 3rd symbol corresponds to the correct solution.

a_163 – Row 3 Task Figures

0	Wrong Answer	843
1	Right Answer	2444
-1	No Answer	182
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0

-7	Only available in less restricted edition	0

The 3rd symbol corresponds to the correct solution.

a_164 – Row 4 Task Figures

0	Wrong Answer	997
1	Right Answer	2400
-1	No Answer	72
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 2nd symbol corresponds to the correct solution.

a_165 – Row 5 Task Figures

0	Wrong Answer	1124
1	Right Answer	2238
-1	No Answer	107
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 2nd symbol corresponds to the correct solution.

a_166 – Row 6 Task Figures

0	Wrong Answer	434
1	Right Answer	2897
-1	No Answer	138
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 2nd symbol corresponds to the correct solution.

a_167 – Row 7 Task Figures

0	Wrong Answer	1213
1	Right Answer	1969
-1	No Answer	287
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 1st symbol corresponds to the correct solution.

a_168 – Row 8 Task Figures

0	Wrong Answer	1672
1	Right Answer	1608
-1	No Answer	189
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 1st symbol corresponds to the correct solution.

a_169 – Row 9 Task Figures

0	Wrong Answer	1759
1	Right Answer	1497
-1	No Answer	213
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 5th symbol corresponds to the correct solution.

a_170 – Row 10 Task Figures

0	Wrong Answer	2140
1	Right Answer	896
-1	No Answer	433
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0

-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 1st symbol corresponds to the correct solution.

a_171 – Row 11 Task Figures

0	Wrong Answer	1338
1	Right Answer	1890
-1	No Answer	241
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 2nd symbol corresponds to the correct solution.

a_172 – Row 12 Task Figures

0	Wrong Answer	1686
1	Right Answer	1512
-1	No Answer	271
-2	Does not apply	330
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 3rd symbol corresponds to the correct solution.

a_173 – Row 13 Task Figures

0	Wrong Answer	2233
1	Right Answer	713
-1	No Answer	522
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 4th symbol corresponds to the correct solution.

a_174 – Row 14 Task Figures

0	Wrong Answer	723
1	Right Answer	2452
-1	No Answer	293
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 2nd symbol corresponds to the correct solution.

a_175 – Row 15 Task Figures

0	Wrong Answer	2319
1	Right Answer	687
-1	No Answer	462
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 5th symbol corresponds to the correct solution.

a_176 – Row 16 Task Figures

0	Wrong Answer	1848
1	Right Answer	1103
-1	No Answer	517
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 2nd symbol corresponds to the correct solution.

a_177 – Row 17 Task Figures

0	Wrong Answer	1405
1	Right Answer	1341
-1	No Answer	722
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0

-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 5th symbol corresponds to the correct solution.

a_178 – Row 18 Task Figures

0	Wrong Answer	1757
1	Right Answer	770
-1	No Answer	941
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 2nd symbol corresponds to the correct solution.

a_179 – Row 19 Task Figures

0	Wrong Answer	1551
1	Right Answer	1100
-1	No Answer	817
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 4th symbol corresponds to the correct solution.

a_180 – Row 20 Task Figures

0	Wrong Answer	1578
1	Right Answer	791
-1	No Answer	1099
-2	Does not apply	331
-3	Answer improbable	0
-4	Inadmissible multiple response	0
-5	Not included in this version of the questionnaire	0
-6	Version of questionnaire with modified filtering	0
-7	Only available in less restricted edition	0

The 5th symbol corresponds to the correct solution.

7 Alternative ID

pid – Never Changing Person ID

9804		1
9805		1
11303		1
13404		1
13405		1
13406		1
13407		1
18703		1
18704		1
18705		1
18706		1
19204		1
19205		1
19206		1
20105		1
...	(3769 rows omitted)	3769
34677403		1
34721102		1
34724903		1
34744403		1
34758103		1
34833404		1
34889203		1
34944204		1
34963203		1
35000304		1
35010803		1
35014305		1
35025602		1
35031204		1
35031205		1

cid – Original Household Number

60	1
981	2
1139	1
1341	4
1481	1
1554	1
1872	4
1929	3
2011	2
2020	2
2054	3
2267	2

2356	2
2429	2
2747	3
... (2633 rows omitted)	3750
3459968	1
3460958	1
3464678	1
3464805	2
3466026	1
3466867	1
3467740	1
3472115	1
3472492	1
3474444	1
3475815	1
3483346	1
3488925	1
3494429	1
3496324	1