

1312²⁰²⁴

SOEP Survey Papers
Series D – Variable Descriptions and Coding

SOEP-Core v38.1 – COGDJ

SOEP Group

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Please cite this paper as follows:

SOEP Group, 2024. SOEP-Core v38.1 – COGDJ. SOEP Survey Papers 1312: Series D – Variable Descriptions and Coding. Berlin: DIW Berlin/SOEP



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ISSN: 2193-5580 (online)

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SOEP-Core v38.1 – COGDJ

SOEP Group

2024

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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 Rosenblatt, 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., Metzinger, 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
2020 256

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

cid – Original Household Number, Case ID

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
... (2806 rows omitted)	4005
3464805	2
3466026	2
3466867	1
3467740	1
3472115	1
3472492	1
3474444	1
3475815	1
3477850	1
3483346	1
3488925	1
3494429	1
3495611	1
3496324	1
3499773	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.

hid – Current Wave HH Number

981	2
1139	1
1341	4
1872	4
1929	3

2011	2
2054	3
2267	2
2356	2
2941	2
3581	1
5193	2
5240	1
6246	1
6823	1
... (2929 rows omitted)	4008
3496324	1
3499773	1
3500275	1
3500674	1
3501085	1
3501182	1
3501433	1
3501506	1
3501590	1
3502510	1
3502561	1
3502600	1
3502880	1
3503088	1
3503126	2

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.

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
... (4025 rows omitted)	4025
34778504	1
34833404	1

34889203	1
34944204	1
34956103	1
34963203	1
34997703	1
35000304	1
35002703	1
35010803	1
35014305	1
35025602	1
35028803	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	3579
2	Chosen Without Interview - No Participation	242
3	Dj-Questionnaire Refused	234
-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 Attendance	19
2	Other Degree	6
3	Other School, continued education	2
4	Secondary General School Attendance	287
5	Secondary School Degree	342
6	Comprehensive School Attendance	339
7	Intermediate School Attendance	732
8	Intermediate School Degree	430

9	Technical HighSchool Attendance	19
10	Technical School Degree	12
11	Upper Secondary School Attendance	1486
12	Upper Secondary School Degree	8
13	Vocational School Attendance	33
14	Technical Collegel Attendance	1
15	University Attendance	2
21	Former Secondary General School According To Mother	72
22	Former Intermediate School According To Mother	110
23	Former Upper School According To Mother	121
-1	No Answer	34
-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		5
14		2
15		1
16		1
17		3
18		3
19		2
20		4
21		3
22		4
23		2
24		5
25		7
...	(27 rows omitted)	1322
53		168
54		159
55		152
56		209
57		197
58		230
59		340
60		756
-1	No Answer	0
-2	Does not apply	476
-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	2	
4	1	
5	2	
6	3	
7	2	
8	5	
9	5	
10	11	
11	22	
12	24	
13	35	
14	62	
15	74	
16	102	
17	124	
18	216	
19	574	
20	2302	
-1	No Answer	10
-2	Does not apply	475
-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 – sumindex From Answers In Taskgroups No. 6 - Arithmetic Operator

1	12
2	36
3	29
4	40
5	49
6	46

7		53
8		64
9		77
10		93
11		102
12		124
13		158
14		180
15		190
16		225
17		207
18		245
19		332
20		1283
-1	No Answer	35
-2	Does not apply	475
-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		10
4		8
5		11
6		15
7		29
8		21
9		35
10		34
11		47
12		79
13		102
14		120
15		154
16		212
17		181
18		211
19		325
20		1964
-1	No Answer	18
-2	Does not apply	475
-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		4
4		3
5		3
6		3
7		10
8		4
9		16
10		15
11		22
12		27
13		35
14		48
15		56
16		49
17		52
...	(29 rows omitted)	3049
47		36
48		33
49		23
50		11
51		9
52		7
53		7
55		2
-1	No Answer	56
-2	Does not apply	475
-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	34
2	113

3	221
4	293
5	316
6	298
7	318
8	340
9	335
10	306
11	283
12	229
13	191
14	129
15	72
16	57
17	24
18	6
19	2
20	1
-1 No Answer	10
-2 Does not apply	475
-7 Only available in less restricted edition	0

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

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

0	8
1	11
2	29
3	49
4	105
5	125
6	202
7	254
8	278
9	294
10	301
11	330
12	298
13	279
14	268
15	267
16	243
17	150
18	71
19	8
-1 No Answer	10
-2 Does not apply	475
-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	2774
1	574
2	216
3	124
4	102
5	74
6	62
7	35
8	24
9	22
10	11
11	5
12	5
13	2
14	3
15	2
16	1
17	2
18	1
19	3
20	13

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

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

0	5
1	21
2	73
3	73
4	72
5	105
6	124
7	134
8	157
9	190
10	212
11	236
12	263
13	230
14	271

15		264
16		239
17		203
18		172
19		224
20		277
-1	No Answer	35
-2	Does not apply	475
-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		1036
1		606
2		381
3		242
4		212
5		214
6		140
7		127
8		114
9		108
10		75
11		59
12		54
13		53
14		40
15		36
16		28
17		12
18		7
20		1
-1	No Answer	35
-2	Does not apply	475
-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	1756
1	332
2	245
3	207
4	224
5	190
6	180
7	158
8	124
9	102
10	93
11	77
12	64
13	53
14	46
15	49
16	40
17	29
18	36
19	12
20	38

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

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

0	11	
1	30	
2	43	
3	74	
4	110	
5	154	
6	213	
7	253	
8	313	
9	352	
10	434	
11	404	
12	386	
13	292	
14	221	
15	138	
16	93	
17	29	
18	9	
19	2	
20	1	
-1	No Answer	18
-2	Does not apply	475
-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		37
1		74
2		140
3		206
4		253
5		310
6		288
7		321
8		343
9		308
10		297
11		243
12		217
13		170
14		138
15		90
16		65
17		38
18		14
19		6
20		4
-1	No Answer	18
-2	Does not apply	475
-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	2437
1	325
2	211
3	181
4	212
5	154
6	120

7	102
8	79
9	46
10	34
11	35
12	21
13	29
14	15
15	11
16	8
17	10
18	2
19	2
20	21

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	123
1	Right Answer	3392
-1	No Answer	68
-2	Does not apply	472
-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	284
1	Right Answer	3189
-1	No Answer	110
-2	Does not apply	472
-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 Analogy Task

0	Wrong Answer	1399
1	Right Answer	2115
-1	No Answer	69
-2	Does not apply	472
-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 Analogy Task

0	Wrong Answer	2096
1	Right Answer	1364
-1	No Answer	123
-2	Does not apply	472
-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 Analogy Task

0	Wrong Answer	1084
1	Right Answer	2369
-1	No Answer	130
-2	Does not apply	472
-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 Analogy Task

0	Wrong Answer	1240
1	Right Answer	2291
-1	No Answer	52
-2	Does not apply	472

-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	1399
1	Right Answer	2091
-1	No Answer	93
-2	Does not apply	472
-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	2138
1	Right Answer	1360
-1	No Answer	85
-2	Does not apply	472
-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	1807
1	Right Answer	1482
-1	No Answer	294
-2	Does not apply	472
-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	1532
1	Right Answer	1992
-1	No Answer	59
-2	Does not apply	472
-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	2029
1	Right Answer	1305
-1	No Answer	249
-2	Does not apply	472
-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	2448
1	Right Answer	897
-1	No Answer	238
-2	Does not apply	472
-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	2026
1	Right Answer	979
-1	No Answer	578
-2	Does not apply	472

-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	2475
1	Right Answer	816
-1	No Answer	292
-2	Does not apply	472
-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	2814
1	Right Answer	571
-1	No Answer	198
-2	Does not apply	472
-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	2723
1	Right Answer	727
-1	No Answer	133
-2	Does not apply	472
-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	2635
1	Right Answer	665
-1	No Answer	283
-2	Does not apply	472
-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	2755
1	Right Answer	579
-1	No Answer	249
-2	Does not apply	472
-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	2719
1	Right Answer	505
-1	No Answer	359
-2	Does not apply	472
-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	2863
1	Right Answer	511
-1	No Answer	209

-2	Does not apply	472
-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	3482
-1	No Answer	79
-2	Does not apply	472
-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	3389
-1	No Answer	130
-2	Does not apply	472
-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	342
1	Right Answer	2914
-1	No Answer	327
-2	Does not apply	472

-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	543
1	Right Answer	2615
-1	No Answer	425
-2	Does not apply	472
-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	338
1	Right Answer	2965
-1	No Answer	280
-2	Does not apply	472
-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	529
1	Right Answer	2556
-1	No Answer	498
-2	Does not apply	472
-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

$$12 \times 5 - 15 = 45$$

b_107 – Row 7 Task Arithmetic Operator

0	Wrong Answer	624
1	Right Answer	2358
-1	No Answer	601
-2	Does not apply	472
-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	539
1	Right Answer	2591
-1	No Answer	453
-2	Does not apply	472
-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

$$9 \times 7 + 14 = 77$$

b_109 – Row 9 Task Arithmetic Operator

0	Wrong Answer	481
1	Right Answer	2600
-1	No Answer	502
-2	Does not apply	472
-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	643
1	Right Answer	2281
-1	No Answer	659
-2	Does not apply	472
-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	711
1	Right Answer	2182
-1	No Answer	690
-2	Does not apply	472
-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	454
1	Right Answer	2504
-1	No Answer	625
-2	Does not apply	472
-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	682
1	Right Answer	2142
-1	No Answer	759
-2	Does not apply	472
-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	863
1	Right Answer	1738
-1	No Answer	982
-2	Does not apply	472
-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	552
1	Right Answer	2098
-1	No Answer	933
-2	Does not apply	472
-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	949
1	Right Answer	1788
-1	No Answer	846
-2	Does not apply	472
-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	964
1	Right Answer	1316
-1	No Answer	1302
-2	Does not apply	473
-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	1170
1	Right Answer	977
-1	No Answer	1435
-2	Does not apply	473
-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	999
1	Right Answer	950
-1	No Answer	1633
-2	Does not apply	473
-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	790
1	Right Answer	1184
-1	No Answer	1608
-2	Does not apply	473
-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	207
1	Right Answer	3327
-1	No Answer	49
-2	Does not apply	472
-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	1243
1	Right Answer	2269
-1	No Answer	70
-2	Does not apply	473
-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	874
1	Right Answer	2520
-1	No Answer	189
-2	Does not apply	472
-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	1025
1	Right Answer	2484
-1	No Answer	74
-2	Does not apply	472
-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	1158
1	Right Answer	2313
-1	No Answer	112
-2	Does not apply	472
-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	445
1	Right Answer	2989
-1	No Answer	149
-2	Does not apply	472
-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	1248
1	Right Answer	2035
-1	No Answer	300
-2	Does not apply	472
-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	1727
1	Right Answer	1660
-1	No Answer	196
-2	Does not apply	472
-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	1804
1	Right Answer	1559
-1	No Answer	220
-2	Does not apply	472
-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	2203
1	Right Answer	929
-1	No Answer	451
-2	Does not apply	472
-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	1377
1	Right Answer	1956
-1	No Answer	250
-2	Does not apply	472
-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	1736
1	Right Answer	1564
-1	No Answer	283
-2	Does not apply	472
-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	2308
1	Right Answer	736
-1	No Answer	538
-2	Does not apply	473
-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	741
1	Right Answer	2535
-1	No Answer	306
-2	Does not apply	473

-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	2395
1	Right Answer	707
-1	No Answer	480
-2	Does not apply	473
-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	1903
1	Right Answer	1140
-1	No Answer	539
-2	Does not apply	473
-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	1453
1	Right Answer	1384
-1	No Answer	745
-2	Does not apply	473
-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	1821
1	Right Answer	787
-1	No Answer	974
-2	Does not apply	473
-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	1600
1	Right Answer	1136
-1	No Answer	846
-2	Does not apply	473
-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	1628
1	Right Answer	816
-1	No Answer	1138
-2	Does not apply	473
-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.