



NEPS SURVEY PAPERS

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NEPS TECHNICAL REPORT FOR ORTHOGRAPHY: SCALING RESULTS OF STARTING COHORT 3 IN GRADES 5, 7, AND 9

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NEPS Technical Report for Orthography¹:

Scaling Results of Starting Cohort 3 in Grades 5, 7, and 9

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¹ This paper uses data from the National Educational Panel Study (NEPS): Starting Cohort 3 – 5th Grade, doi: 10.5157/NEPS:SC3:5.0.0. From 2008 to 2013, NEPS data were collected as part of the Framework Programme for the Promotion of Empirical Educational Research funded by the German Federal Ministry of Education and Research (BMBF). As of 2014, the NEPS survey is carried out by the Leibniz Institute for Educational Trajectories (LIfBi) at the University of Bamberg in cooperation with a nationwide network.

NEPS Technical Report for Orthography: Scaling Results of Starting Cohort 3 in Grades 5, 7, and 9

Abstract

In the National Educational Panel Study (NEPS), the orthography competency is measured as a stage-specific supplement in secondary school from Grades 5 to 9. In this paper, the test and its theoretical framework are introduced, followed by a description of the data, of data analysis, and its results for the Scientific Use File in Grades 5, 7 and 9. The aim of this Technical Report is to provide a description that will enable the scientific community to understand as well as use the data in an appropriate way. In so doing, the paper seeks to clarify in advance any potential questions that may arise concerning the data and to motivate data users to further analyze the data of the orthography competency in Grades 5, 7, and 9.

Keywords

spelling competency, orthography

1. Introduction

Most competencies are measured coherently across the life span in the National Educational Panel Study (NEPS), that is, reading, mathematics, and domain-general cognitive functioning. These competencies are complemented by stage-specific measures that occur only in one specific educational stage. This is also true for the spelling competency, which is measured only in NEPS Stage 4—From Lower to Upper Secondary School.

The spelling test used in Stage 4 was developed in previous works by Inge Blatt and Andreas Voss for Grades 4 and 5 (Voss et al., 2007; Blatt et al., 2007; Jarsinski, 2010; Frahm et al., 2011). In the National Educational Panel Study this test was then further developed during the course of the study with an identical framework but changed content. Like most competence tests, the scaling is also carried out by using models based on item response theory (IRT) in order to evaluate the quality of the test.

This paper presents the results of the analyses for the spelling competency in Starting Cohort 3—Grade 5, Grade 7, and Grade 9. First, the theoretical framework and its realization are briefly described. Thereafter, the analyses of its results are explained.

The present report is modeled on the technical reports by Pohl, Haberkorn, Hardt, & Wiegand (2012) and Haberkorn, Pohl, Hardt, & Wiegand (2012). We would like to thank Steffi Pohl and Kerstin Haberkorn for developing and providing standards for the technical reports.

2. Testing Orthography Competence

The framework and test development for the orthography competence test have already been described in Blatt et al. (2011) and Frahm et al. (2011). Therefore, we will give only a brief outline of the framework and the tests used in the National Educational Panel Study for Grades 5, 7, and 9.

The framework distinguishes between five subskills of orthography (phonographic syllabic subskill, morphological subskill, peripheral subskill, derivational subskill, and syntactic subskill). In order to measure these subskills, structural units of words (i.e., reality: #real #ity) are assigned to subskills, with each subskill consisting of 23 to 71 structural units in Grade 5, 40 to 103 structural units in Grade 7, and 44 to 99 structural units in Grade 9. The subskills usually correlate highly. For Grades 5 and 7 a five-dimensional model according to the framework had proved most adequate for modeling the data. For Grade 9 the phonographic syllabic and the morphological subskill were combined to one dimension because of the very high correlation, and the syntactic subskill was split into a basic and an extended syntactic subskill because of the large differences in item difficulty (Blatt et al., 2015). On top of this distinguished model, each word is also assessed at whole-word level, regardless of the subskills. Hence, the test offers an insight into two levels of orthography, depending on what kind of objectives are pursued for using the test data—either a differential score of spelling based on subskills or a generalized score based on the whole-word level.

The tests consist of a cloze test and full sentences. In Grade 5 there are three full sentences, and in Grade 7 and 9 there are nine full sentences. The tests include six pages that have to

be completed within 25 min. The test instructions and the test contents were played back from a CD that had been prerecorded with a professional speaker.

3. Data

3.1 The Design of the Study

For the main study in Grades 5, 7, and 9, no split design was intended. This came as a result of the testing situation via CD. The entire test group took the test simultaneously.

For Grade 5 the test included 30 words in the cloze test and 44 words in the full sentences. In Grade 7 the test included 18 words in the cloze test and 119 words in the full sentences. In Grade 9 the test included 11 words in the cloze test and 126 words in the full sentences. Words that did not provide any information on orthography competency, such as “and”, were eliminated prior to the analyses. Therefore, the data set used for the analyses consisted of 54 full words in Grade 5, 87 full words in Grade 7, and 86 full words in Grade 9. Those 54 words in Grade 5 translate into 234 structural units, and correspondingly the 87 full words in Grade 7 translate into 364 structural units, and the 86 full words in Grade 9 translate into 249 structural units.¹ In the tests they are distributed across all subskills.

The test data were first transcribed by the IEA Data Processing Center (IEA DPC) using transcription conventions that had been established in the context of the PIRLS Study (cf. Frahm et al., 2011). The transcribed data were then entered into Microsoft Excel by the IEA Data Processing Center (IEA DPC) and coded by a newly developed tool (SRT-Editor) in Stage 4 (cf. Frahm et al., 2011). The data analyses described in this paper were performed by Stage 4 based on the scaling standards for NEPS (Pohl & Carstensen, 2012a). Deviations from these standards are indicated in the respective paragraphs of this paper.

3.2 Sample

The test was taken by 5,208 students in Grade 5 attending several different school types in Germany. In Grade 7 the test was taken by 6,196 students and in Grade 9 by 4,883 students who also came from several school types. Students with special educational needs were not included.

4. Analyses

4.1 Missing Responses

In case of a missing item response, the item was coded as -20 = “missing gaps word”, -21 = “missing sentence word”, -22 = “cannot be read”, and -23 = “joke response”.

4.2 Naming of Variables

The naming of variables used in all grades allows us to differentiate between variables used in all grades (anchor items) and the specific items of each grade according to the curricular content (items specific to a certain point in time).

¹ The number of structural units refers to the items that were used for the statistical analysis.

4.3 Scaling Model

For the data analyses, test data are first transcribed and then coded by a special software developed for this test into dichotomous items (0 = wrong; 1 = right) with missings. Analyses are based on item response theory (IRT) with Rasch's simple logistic model (Rasch, 1960), and they are conducted via the program ConQuest (Wu, Adams, & Wilson, 1997). Ability estimates for spelling competency were estimated as weighted maximum likelihood estimates (WLEs, Warm, 1989). Person parameter estimation in NEPS has already been described in Pohl & Carstensen (2012a).

4.4 Reviewing the Quality of the Test

The spelling test was specifically constructed to be implemented in NEPS. In order to ensure appropriate psychometric properties, the quality of the test was reviewed. It is important to note that, prior to the analyses, words such as "and" that were correctly solved by a huge majority of the sample and also constants were directly removed. During the estimation of student ability and item difficulty, some misfit items had to be removed, because they deviated from the PISA reference by a maximum item fit (weighted mean square (MNSQ)) of 1.2 and a discrimination of less than 0.26 (OECD, 2005). For Grade 5 these were 4 out of 54 items at whole-word level and 53 out of 234 items at structural-unit level; in Grade 7 these were 9 out of 87 items at whole-word level and 63 out of 364 items at structural-unit level, and in Grade 9 these were 9 out of 86 items at whole-word level and 26 out of 249 items at structural-unit level.

5. Results

5.1 Parameter Estimates

5.1.1 Item parameter and person parameters

The estimated item parameter and person parameters are represented in the form of item fit, item difficulty, and student ability. The collection of item parameters is provided in the Appendix (see Tables 4 to 9).

At whole-word level and structural-unit level, item fit has removed misfit items not over 1.20. In terms of item difficulty, it becomes evident that both tests still offer easy as well as difficult items. For Grade 5 they are within the range of -5 and 3 for the whole-word level (see Figure 1) and within the range of -4 and 3 for the structural-unit level (see Figure 2). For Grade 7 they are within the range of -4 and 2 for the whole-word level (see Figure 3) and within the range of -4 and 3 for the structural-unit level (see Figure 4). For Grade 9 they are within the range of -5 and 4 for the whole-word level (see Figure 5) and within the range of -5 and 4 for the structural-unit level (see Figure 6). Compared with the whole word, the structural units are, in total, a little bit easier. Students solve more structural-unit items correctly than whole-word items. In total, student ability is high overall.

Map of Item Difficulty and Student Ability

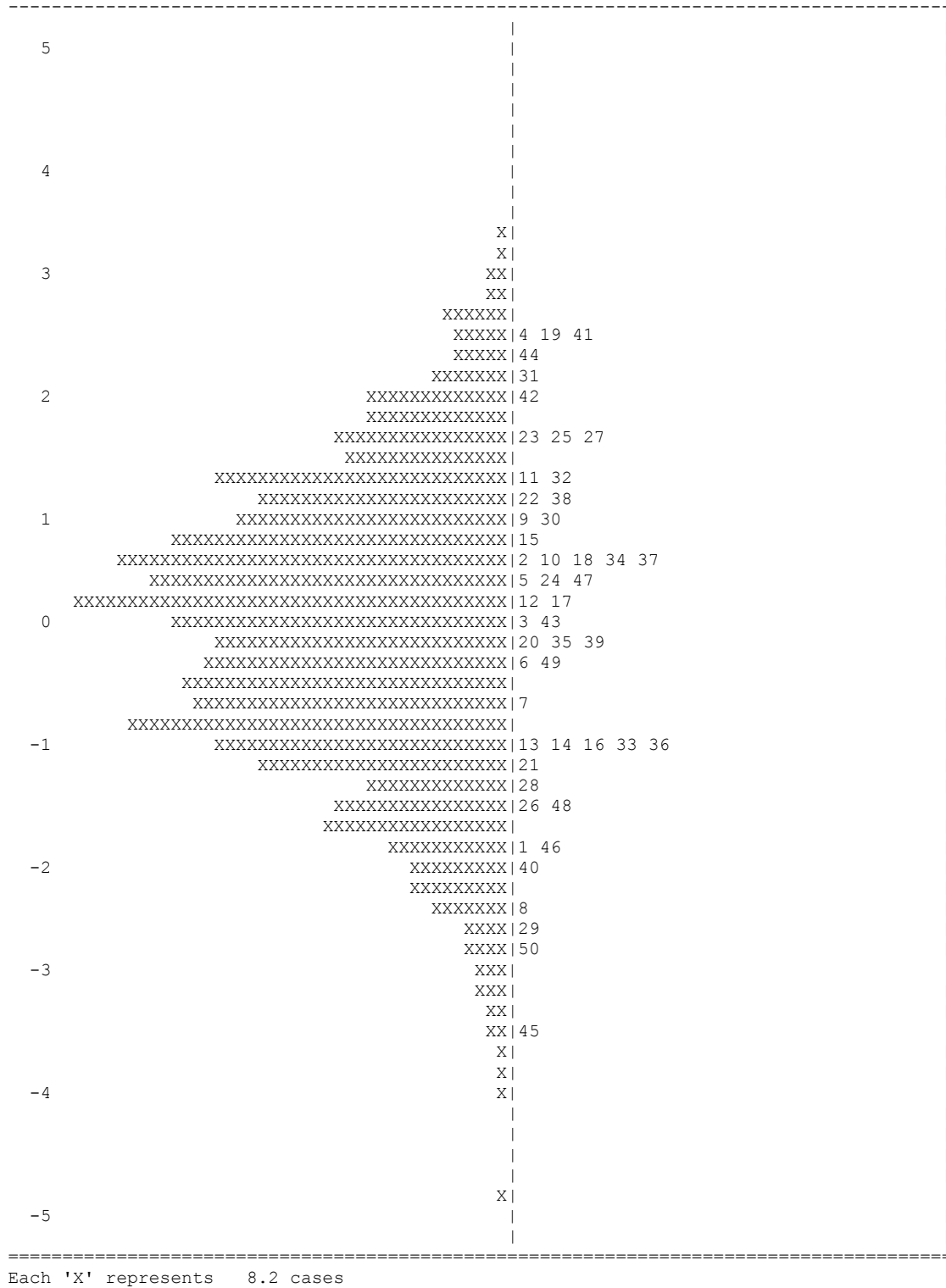


Figure 1. Whole-word level in Grade 5.



=====
 Each 'X' represents 8.4 cases
 Some parameters could not be fitted on the display

Figure 2. Structural-unit level in Grade 5.

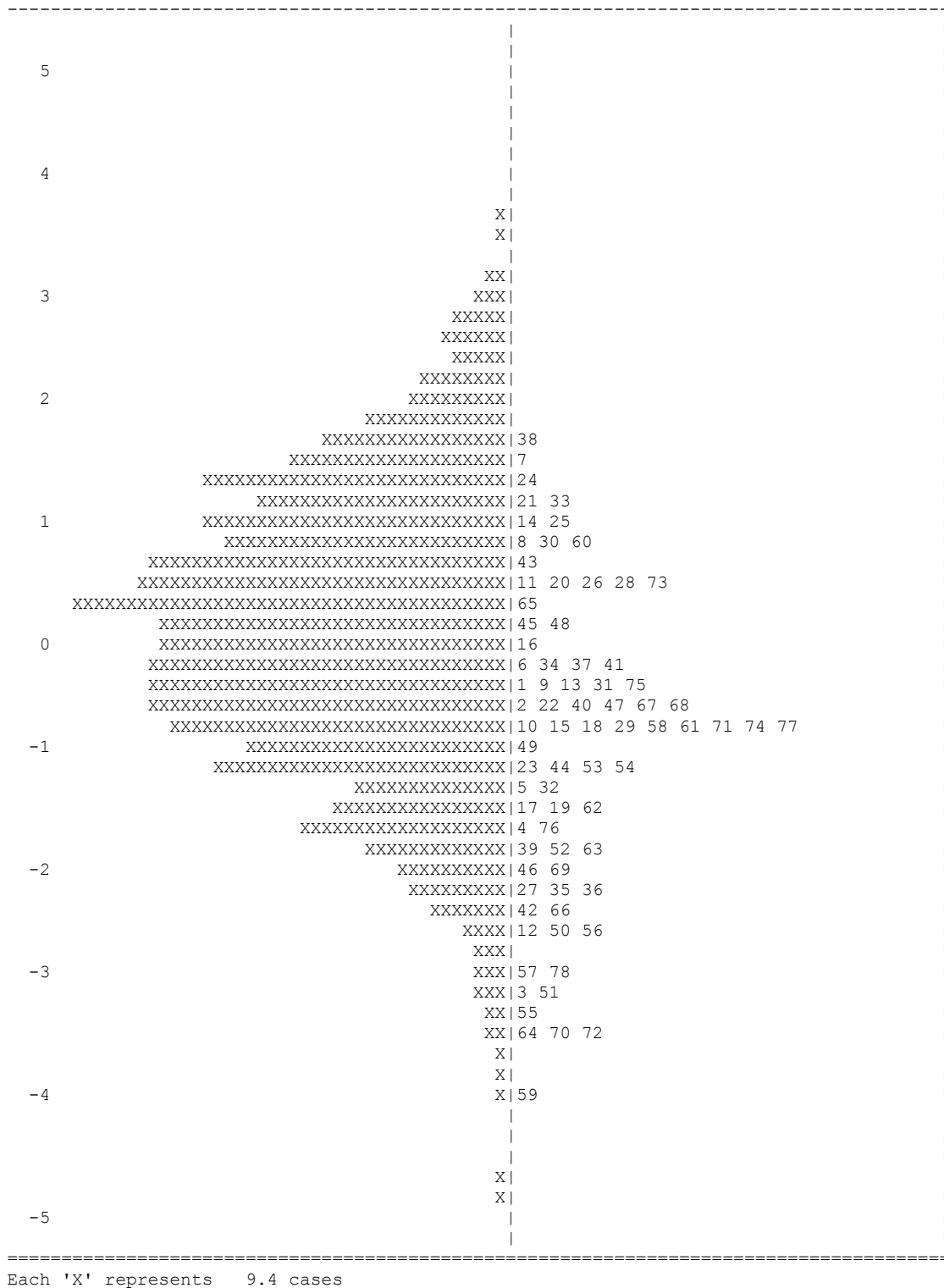


Figure 3. Whole-word level in Grade 7.

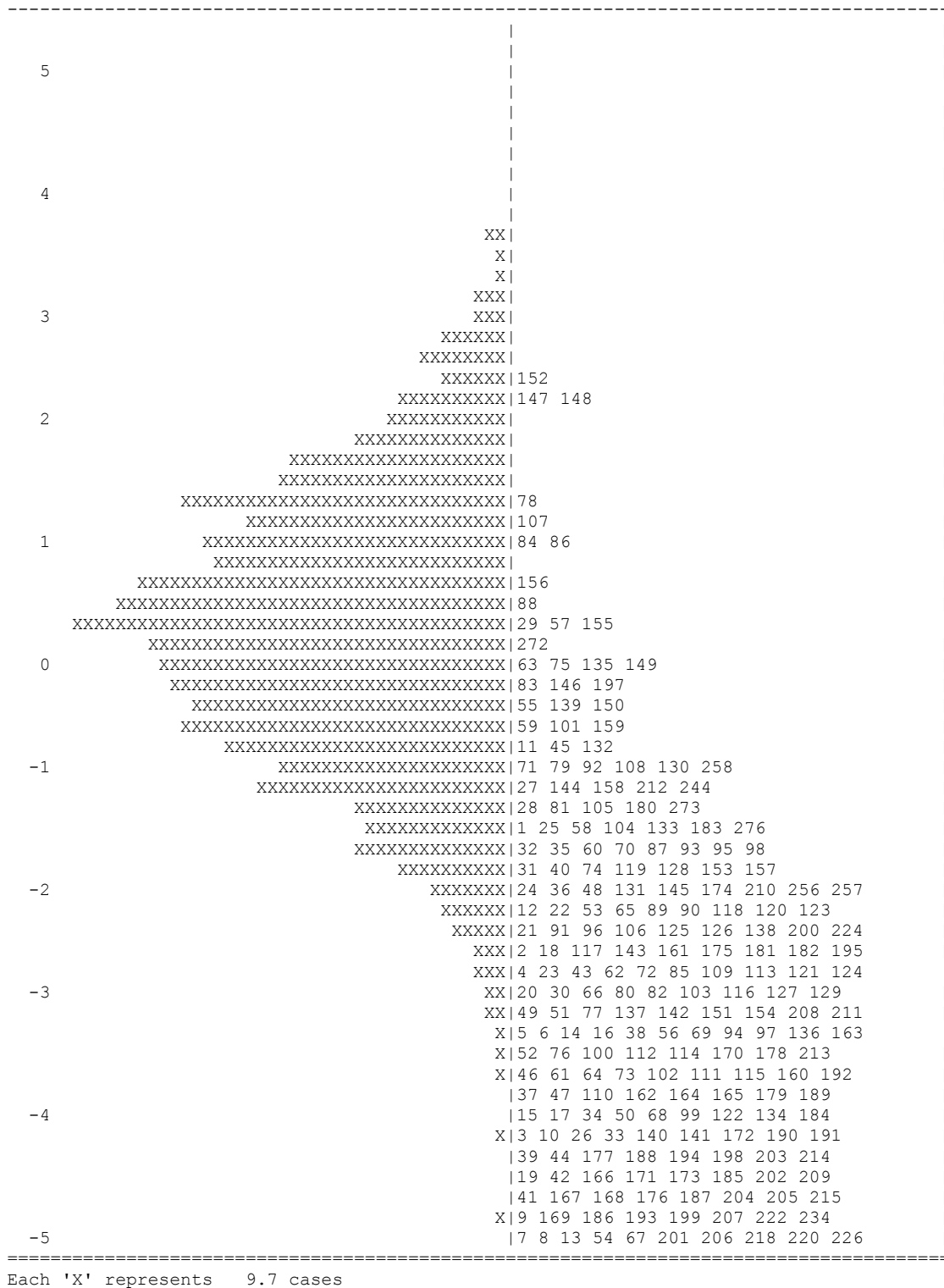


Figure 4. Structural-unit level in Grade 7.

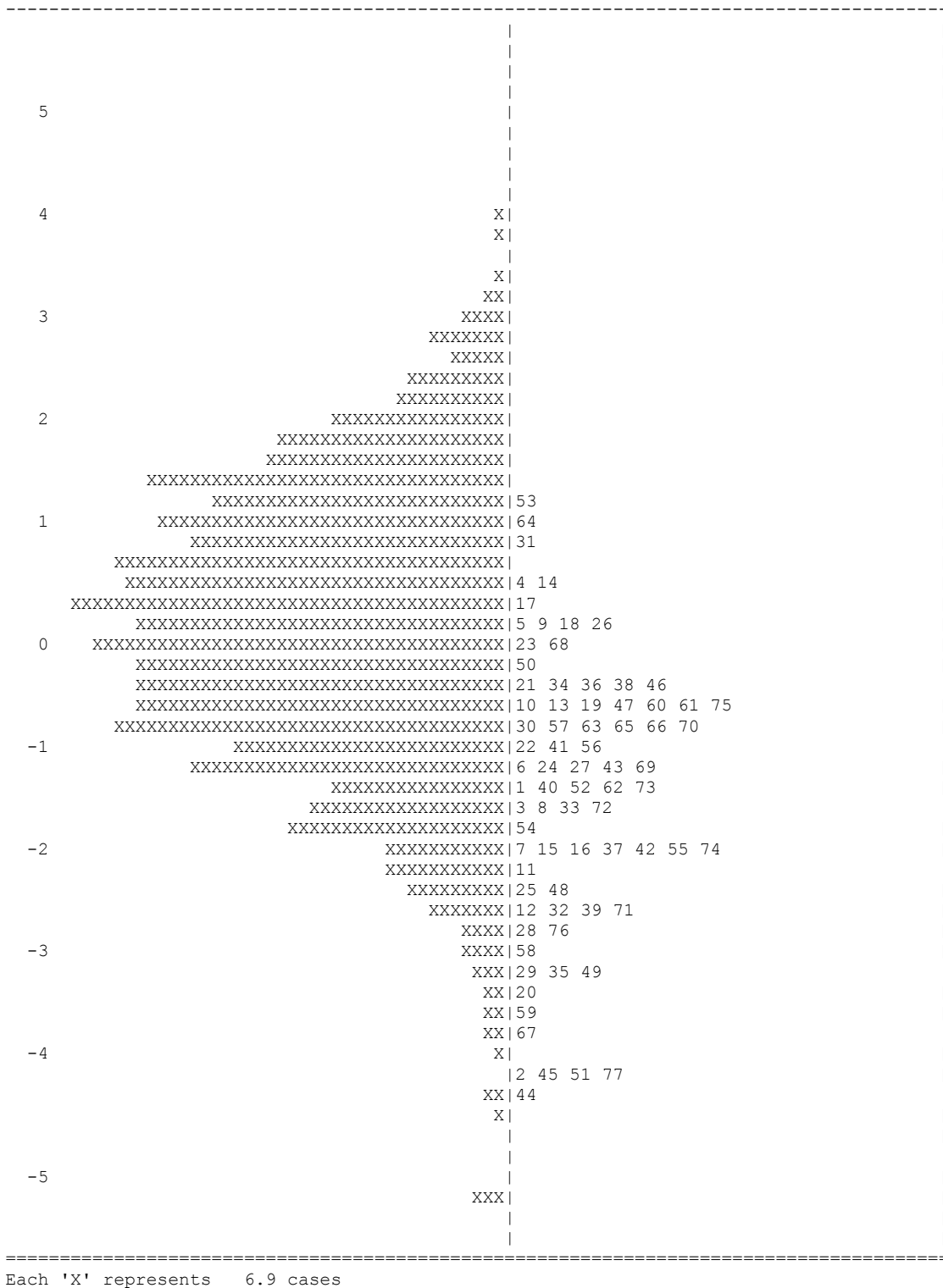


Figure 5. Whole-word level in Grade 9.

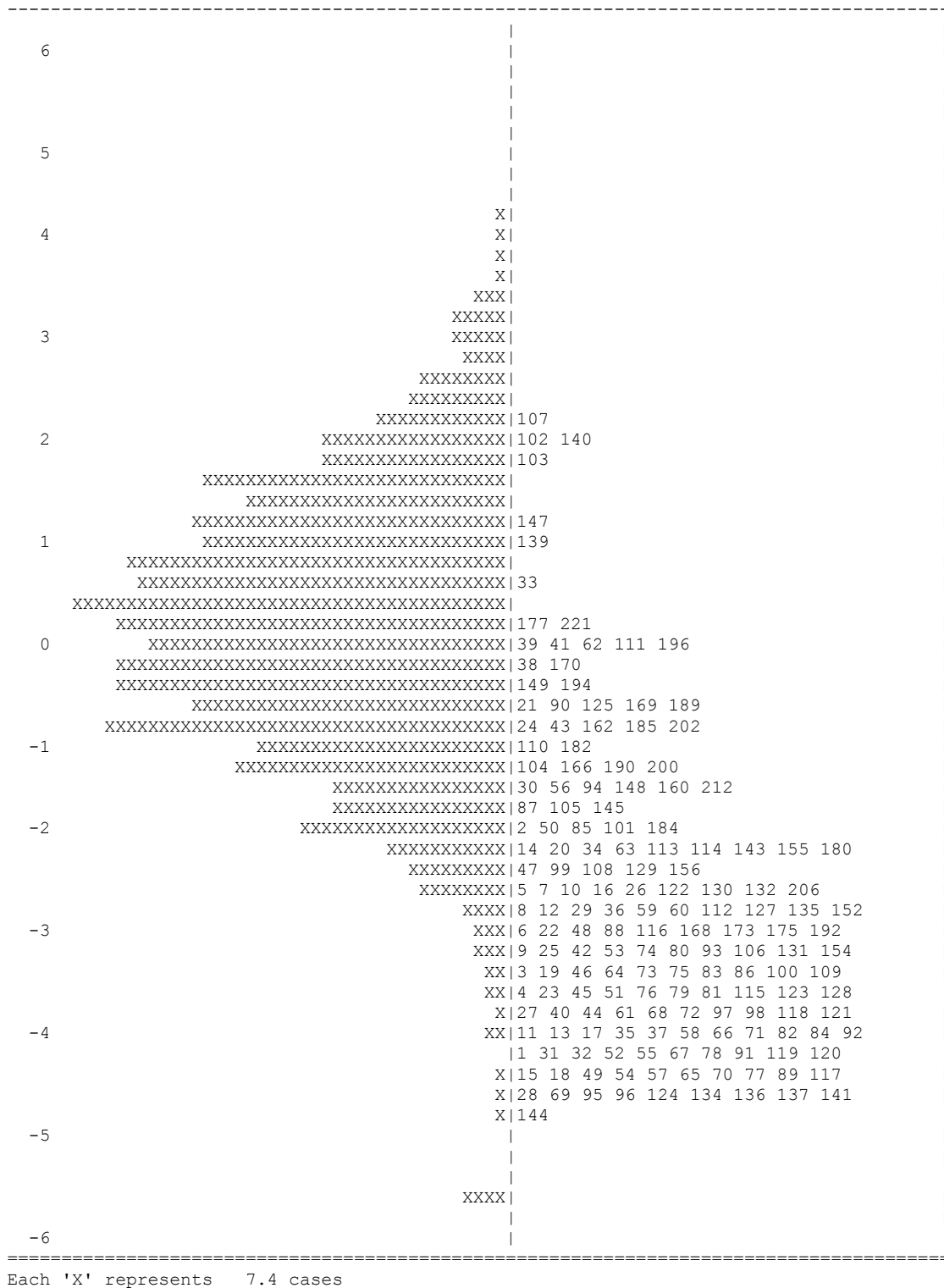


Figure 6. Structural-unit level in Grade 9.

Tables 1, 2 and 3 show the results of the descriptive statistics.

Table 1

Descriptive Statistics Grade 5

	N	Minimum	Maximum	Mean	Standard deviation	Variance
org5_sc1a	5208	-5.69	4.45	-0.01	1.38	1.89
org5_sc2a	5208	0.34	1.51	0.38	0.08	0.06
org5_sc1b	5208	-8.69	4.74	-0.10	1.19	1.42
org5_sc2b	5208	0.17	1.44	0.24	0.08	0.07

For Grade 5 the variables org5_sc1a and org5_sc1b are the raw (nonstandardized) estimated student ability with the standard error in terms of org5_sc2a and org5_sc2b at the whole-word and structural-unit level. It can be transformed according to the needs of the researcher.

Table 2

Descriptive Statistics Grade 7

	N	Minimum	Maximum	Mean	Standard deviation	Variance
org7_sc1a	6196	-6.90	4.90	0.01	1.37	1.89
org7_sc2a	6196	0.26	1.45	0.31	0.09	0.01
org7_sc1b	6196	-9,03	5,09	0.18	1.37	1.88
org7_sc2b	6196	0.14	1.47	0.26	0.12	0.01

For Grade 7 the variables org7_sc1a and org7_sc1b are the raw (nonstandardized) estimated student ability with the standard error in terms of org7_sc2a and org7_sc2b at the whole-word and structural-unit level. It can be transformed according to the needs of the researcher.

Table 3

Descriptive Statistics Grade 9

	N	Minimum	Maximum	Mean	Standard deviation	Variance
org9_sc1a	4883	-7.40	4.32	0.01	1.47	2.15
org9_sc2a	4883	0.26	1.46	0.35	0.12	0.02
org9_sc1b	4883	-9,64	4,86	0.05	1.59	2.53
org9_sc2b	4883	0.15	1.47	0.31	0.16	0.02

For Grade 9 the variables org9_sc1a and org9_sc1b are the raw (nonstandardized) estimated student ability with the standard error in terms of org9_sc2a and org9_sc2b at the whole-word and structural-unit level. It can be transformed according to the needs of the researcher.

5.2 Reliability

For Grade 5 the reliability (EAP/PV) at the whole-word level is 0.963 and 0.928 at structural-unit level. Due to its high value, one can assume that the test is reliable.

For Grade 7 the reliability (EAP/PV) at the whole-word level is 0.942 and 0.945 at structural-unit level. Due to its high value, one can assume that the test is reliable.

For Grade 9 the reliability (EAP/PV) at the whole-word level is 0.941 and 0.945 at structural-unit level. Due to its high value, one can assume that the test is reliable.

6. Discussion

The test has proven to be reliable after item elimination in accordance with statistical criteria. Furthermore, the test is objective because dictation is given from a CD recording and executed by experienced test administrators. However, those statistical processes are not the only steps necessary for developing a reliable test. It must be stressed that prior theoretical work and the development of a common framework are important prerequisites for successful testing. Prior development processes include a thorough interdisciplinary research of linguistics, didactics, and empirical studies.

In order to give further insight into the meaning of the results, it is important to underline the difference of both levels, particularly in terms of item difficulty. At the whole-word level, the difficulty has proven to be statistically adequate. At the structural-unit level, however, a majority of rather easy items has become evident. This is intended as the structural units provide some important additional information on the students' strengths and weaknesses, which allows for a more differentiated insight into their spelling competency. By offering a

score on both levels, that is, a general score and a differential one, we are facilitating a variety of options for using the test data according to individual research objectives.

7. Data in the Scientific Use File

There are 231 items in the data set of Grade 5, 379 items in the data set of Grade 7 and 300 items in the data set of Grade 9 that are either scored as dichotomous variables with 0 indicating an incorrect response, 1 indicating a correct response and -20, -21, -22, and -23 indicating missing values. Manifest scale scores are provided in the form of WLE estimates (Grade 5: org5_sc1; Grade 7: org7_sc1; Grade 9: org9_sc1) including the corresponding standard error (Grade 5: org5_sc2; Grade 7: org7_sc2; Grade 9: org9_sc2). The ConQuest Syntax for estimating the WLE scores from the items is provided in Appendix.

Plausible values that allow for an investigation of latent relationships of competence scores with other variables will be provided in later data releases. Alternatively, users interested in investigating latent relationships may either include the measurement model in their analyses or estimate plausible values themselves. A description of these approaches can be found in Pohl and Carstensen (2012a).

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Conquest Syntax (CQC) Grade 7

Whole-word level

```
Title Modell11b: SUF;  
set warnings=no, update=yes, constraints=cases;  
data whole_word_level.dat;  
format idstud 1-10 responses;  
labels << whole_word_level.nam;  
codes 0,1,5,6,7,9;  
export log >> whole_word_level.log;  
  
key 11111111111111111111111111111111111111111111111111111111111111111111 !1;  
  
model items;  
export parameters >> whole_word_level.prm;  
export reg_coefficients >> whole_word_level.reg;  
export covariance >> whole_word_level.cov;  
estimate !method=quadrature, iterations=1000;  
show cases !estimate=wle >> whole_word_level.wle;  
show parameters !estimates=latent >> whole_word_level.shw;  
itanal >> whole_word_level.itn;  
quit;
```

Structural-unit level

```
Title Modell11c: SUF;  
set warnings=no, update=yes, constraints=cases;  
data structural_unit_level.dat;  
format idstud 1-10 responses;  
labels << structural_unit_level.nam;  
codes 0,1,5,6,7,9;  
export log >> structural_unit_level.log;  
  
key  
11111111111111111111111111111111111111111111111111111111111111111111  
11111111111111111111111111111111111111111111111111111111111111111111  
11111111111111111111111111111111111111111111111111111111111111111111  
111111111111111111111111 !1;  
  
model items;  
export parameters >> structural_unit_level.prm;  
export reg_coefficients >> structural_unit_level.reg;  
export covariance >> structural_unit_level.cov;  
estimate !method=quadrature, iterations=1000;  
show cases !estimate=wle >> structural_unit_level.wle;  
show parameters !estimates=latent >> structural_unit_level.shw;  
itanal >> structural_unit_level.itn;  
quit;
```


Item Parameters and Item Fit

Tables 4 and 5 present the estimated item parameters for each item on the whole-word level and the structural-unit level for Grade 5. Tables 6 and 7 present the estimated item parameters for each item on the whole-word level and the structural-unit level for Grade 7. Tables 8 and 9 present the estimated item parameters for each item on the whole-word level and the structural-unit level for Grade 9. In the first two columns item numbers and item names are displayed. Columns 3 and 4 present the item difficulty by showing the mean and the standard error. The weighted fit is represented by the weighted mean square (MNSQ) and the *t*-value. Finally, the discrimination of the items is shown.

Table 4

Whole-Word Level Grade 5

	ITEM	ITEM DIFFICULTY		WEIGHTED FIT		DISCRIMINATION
		ESTIMATE	SE	MNSQ	T	
1	org51001_c	-1.923	0.040	1.04	1.7	0.38
2	org51002_c	0.662	0.033	1.07	5.0	0.45
3	org51003_c	0.114	0.032	0.95	-3.4	0.56
4	org51004_c	2.565	0.047	0.95	-1.6	0.40
5	org51005_c	0.472	0.032	0.94	-4.3	0.55
6	org51006_c	-0.267	0.032	0.92	-5.7	0.57
7	org51007_c	-0.554	0.033	1.05	3.3	0.48
8	org51008_c	-2.447	0.045	1.04	1.3	0.36
9	org51009_c	1.043	0.034	0.95	-3.5	0.52
10	org51010_c	0.569	0.033	0.96	-2.9	0.54
11	org51011_c	1.283	0.035	0.98	-1.0	0.48
12	org51012_c	0.214	0.032	0.98	-1.8	0.54
13	org51013_c	-0.961	0.034	0.99	-0.5	0.50
14	org51014_c	-1.005	0.034	1.09	5.3	0.43
15	org51015_c	0.803	0.033	0.87	-9.0	0.59
16	org51016_c	-0.934	0.034	0.87	-8.2	0.58
17	org51017_c	0.212	0.032	1.06	4.1	0.48
18	org51018_c	0.654	0.033	0.94	-4.1	0.55
19	org51019_c	2.634	0.048	1.03	0.9	0.33
20	org51020_c	-0.106	0.032	0.93	-5.1	0.57
21	org51021_c	-1.076	0.035	1.14	7.7	0.38
22	org51022_c	1.193	0.035	1.18	10.3	0.34
23	org51023_c	1.605	0.037	0.96	-1.8	0.48
24	org51024_c	0.431	0.032	0.93	-5.5	0.57
25	org51025_c	1.584	0.037	0.92	-4.3	0.51
26	org51026_c	-1.469	0.037	0.91	-4.7	0.52
27	org51027_c	1.727	0.038	0.98	-0.9	0.45
28	org51028_c	-1.304	0.036	0.96	-2.4	0.51
29	org51029_c	-2.562	0.047	1.10	3.2	0.31
30	org51030_c	0.878	0.033	1.04	2.5	0.47
31	org51031_c	2.242	0.043	0.92	-3.2	0.44
32	org51032_c	1.371	0.036	0.96	-2.1	0.48
33	org51033_c	-0.995	0.034	0.94	-3.9	0.54
34	org51034_c	0.612	0.033	1.03	2.4	0.49
35	org51035_c	-0.062	0.032	1.09	6.3	0.45

36	org51036_c	-0.952	0.034	1.18	10.6	0.38
37	org51037_c	0.564	0.033	1.07	4.6	0.45
38	org51038_c	1.098	0.034	1.16	9.7	0.36
39	org51039_c	-0.017	0.032	1.01	0.8	0.52
40	org51040_c	-2.037	0.041	0.93	-3.0	0.47
41	org51041_c	2.583	0.047	0.96	-1.4	0.38
42	org51042_c	2.095	0.041	0.93	-2.8	0.47
43	org51043_c	0.010	0.032	1.01	0.8	0.51
44	org51044_c	2.362	0.044	1.02	0.6	0.36
45	org51045_c	-3.512	0.063	1.01	0.2	0.27
46	org51046_c	-1.800	0.039	0.95	-2.3	0.47
47	org51047_c	0.401	0.032	0.98	-1.4	0.52
48	org51048_c	-1.459	0.037	1.19	9.1	0.34
49	org51049_c	-0.186	0.032	0.98	-1.7	0.53
50	org51050_c	-2.772	0.050	0.99	-0.3	0.36

Table 5

Structural-Unit Level Grade 5

	ITEM	ITEM DIFFICULTY		WEIGHTED FIT		DISCRIMINATION
		ESTIMATE	SE	MNSQ	T	ESTIMATE
1	org52001_c	-2.486	0.046	1.07	2.3	0.31
2	org52002_c	0.548	0.032	1.01	0.8	0.40
3	org52003_c	-4.288	0.088	1.01	0.1	0.27
4	org52004_c	-2.796	0.050	0.92	-2.4	0.46
5	org52005_c	-3.027	0.054	1.04	1.1	0.31
6	org52006_c	-2.708	0.049	1.05	1.5	0.31
7	org52007_c	-3.370	0.061	0.99	-0.1	0.33
8	org52008_c	-2.192	0.042	0.90	-4.1	0.51
9	org52009_c	-2.652	0.048	0.97	-0.9	0.40
10	org52010_c	-2.204	0.042	0.95	-1.8	0.45
11	org52011_c	0.684	0.032	1.05	3.7	0.35
12	org52012_c	-3.305	0.060	1.06	1.2	0.27
13	org52013_c	-2.134	0.041	1.01	0.5	0.39
14	org52014_c	-0.469	0.032	1.01	0.5	0.44
15	org52015_c	-3.512	0.064	1.02	0.3	0.30
16	org52016_c	-2.975	0.053	0.99	-0.3	0.36
17	org52017_c	-3.700	0.069	1.00	-0.1	0.31
18	org52018_c	-1.526	0.036	1.00	-0.2	0.44
19	org52019_c	-3.836	0.073	0.98	-0.3	0.32
20	org52020_c	-3.695	0.069	0.98	-0.3	0.33
21	org52021_c	-0.961	0.033	1.10	6.5	0.36
22	org52022_c	-2.463	0.045	1.05	1.6	0.34
23	org52023_c	-3.820	0.073	0.98	-0.3	0.34
24	org52024_c	-3.084	0.055	1.03	0.7	0.31
25	org52025_c	-1.827	0.038	0.95	-2.1	0.46
26	org52026_c	-2.092	0.041	0.96	-1.6	0.45
27	org52027_c	-1.327	0.035	1.11	6.0	0.35
28	org52028_c	-3.192	0.057	0.94	-1.5	0.41
29	org52029_c	-2.044	0.040	0.95	-2.2	0.46
30	org52030_c	-3.412	0.062	0.91	-1.8	0.42
31	org52031_c	-2.325	0.044	1.08	2.9	0.30
32	org52032_c	-3.858	0.074	0.95	-0.9	0.37
33	org52033_c	-2.650	0.048	0.94	-1.7	0.44
34	org52034_c	-0.948	0.033	1.06	4.0	0.41
35	org52035_c	-3.759	0.071	0.93	-1.3	0.39
36	org52036_c	-3.525	0.065	0.96	-0.8	0.37
37	org52037_c	-3.612	0.067	0.92	-1.5	0.40
38	org52038_c	-1.978	0.040	0.89	-4.7	0.52
39	org52039_c	-3.779	0.071	0.93	-1.2	0.40
40	org52040_c	-3.042	0.054	0.92	-2.0	0.45
41	org52041_c	-2.627	0.048	0.92	-2.4	0.47
42	org52042_c	-2.895	0.052	1.04	1.1	0.32
43	org52043_c	-0.847	0.033	1.13	8.6	0.33
44	org52044_c	-0.045	0.031	0.99	-1.2	0.44
45	org52045_c	-1.088	0.034	0.88	-7.9	0.55
46	org52046_c	-1.832	0.038	1.12	5.5	0.31
47	org52047_c	-2.749	0.049	1.03	0.9	0.34
48	org52048_c	-0.794	0.032	1.13	9.2	0.33
49	org52049_c	-0.376	0.031	1.02	2.0	0.42

50	org52050_c	-1.595	0.037	0.99	-0.7	0.44
51	org52051_c	-2.580	0.047	1.09	2.6	0.28
52	org52052_c	-2.080	0.041	0.92	-3.2	0.49
53	org52053_c	-1.842	0.039	1.15	6.7	0.28
54	org52054_c	-0.915	0.033	1.18	12.0	0.28
55	org52055_c	-0.658	0.032	0.87	-10.0	0.55
56	org52056_c	-1.050	0.033	0.94	-3.7	0.49
57	org52057_c	-4.721	0.106	1.01	0.1	0.27
58	org52058_c	-3.913	0.075	1.01	0.3	0.27
59	org52059_c	-2.835	0.051	1.01	0.3	0.37
60	org52060_c	0.271	0.031	0.99	-0.6	0.42
61	org52061_c	-1.408	0.035	0.96	-2.4	0.48
62	org52062_c	-0.934	0.033	0.91	-6.3	0.53
63	org52063_c	-1.972	0.040	1.05	2.1	0.37
64	org52064_c	-1.672	0.037	1.10	4.6	0.34
65	org52065_c	-2.706	0.049	0.99	-0.3	0.38
66	org52066_c	-2.251	0.043	0.90	-4.0	0.51
67	org52067_c	0.140	0.031	1.05	3.8	0.40
68	org52068_c	-1.122	0.034	0.96	-2.6	0.48
69	org52069_c	-2.488	0.046	1.01	0.2	0.38
70	org52070_c	-2.128	0.041	0.99	-0.4	0.42
71	org52071_c	0.262	0.031	1.04	3.0	0.39
72	org52072_c	-3.188	0.057	0.99	-0.3	0.34
73	org52073_c	-2.429	0.045	0.90	-3.6	0.49
74	org52074_c	-3.896	0.075	0.94	-0.9	0.36
75	org52075_c	-1.936	0.039	1.00	0.2	0.41
76	org52076_c	-3.249	0.059	0.96	-0.9	0.37
77	org52077_c	-1.448	0.036	1.06	3.0	0.39
78	org52078_c	-2.791	0.050	1.00	-0.1	0.37
79	org52079_c	-1.922	0.039	1.00	-0.2	0.42
80	org52080_c	-1.472	0.036	1.08	4.1	0.37
81	org52081_c	0.097	0.031	1.06	4.6	0.38
82	org52082_c	-1.102	0.034	0.89	-7.1	0.54
83	org52083_c	0.649	0.032	0.92	-6.1	0.45
84	org52084_c	-0.313	0.031	0.94	-5.3	0.49
85	org52085_c	-3.393	0.062	1.05	1.1	0.26
86	org52086_c	-0.327	0.031	0.91	-7.8	0.52
87	org52087_c	-2.153	0.042	0.93	-2.8	0.48
88	org52088_c	-0.362	0.031	0.90	-8.3	0.52
89	org52089_c	-0.765	0.032	0.96	-2.7	0.48
90	org52090_c	-2.786	0.050	0.95	-1.5	0.42
91	org52091_c	-2.007	0.040	1.00	0.1	0.42
92	org52092_c	0.697	0.032	0.87	-9.7	0.49
93	org52093_c	-1.489	0.036	0.87	-7.1	0.55
94	org52094_c	-0.197	0.031	0.87	-11.1	0.54
95	org52095_c	-1.098	0.034	1.12	7.4	0.34
96	org52096_c	-2.682	0.048	0.92	-2.4	0.45
97	org52097_c	-1.152	0.034	1.02	1.5	0.42
98	org52098_c	-0.028	0.031	0.91	-7.8	0.51
99	org52099_c	-3.330	0.060	0.92	-1.6	0.41
100	org52100_c	1.783	0.039	1.03	1.4	0.29
101	org52101_c	-3.480	0.064	0.89	-2.2	0.44
102	org52102_c	-1.842	0.039	0.91	-4.3	0.51
103	org52103_c	-1.162	0.034	1.06	3.9	0.39
104	org52104_c	-2.244	0.043	1.09	3.1	0.33
105	org52105_c	-3.131	0.056	1.07	1.7	0.26
106	org52106_c	-3.603	0.067	1.04	0.8	0.27

107	org52107_c	-2.840	0.051	1.07	1.9	0.28
108	org52108_c	-2.827	0.051	1.05	1.4	0.30
109	org52109_c	-4.802	0.109	1.00	0.1	0.29
110	org52110_c	-1.981	0.040	0.94	-2.8	0.48
111	org52111_c	-1.621	0.037	0.99	-0.3	0.44
112	org52112_c	-0.966	0.033	1.00	-0.0	0.44
113	org52113_c	-1.643	0.037	0.93	-3.8	0.50
114	org52114_c	-3.784	0.072	0.95	-0.8	0.37
115	org52115_c	-2.057	0.041	0.93	-3.0	0.49
116	org52116_c	-1.636	0.037	1.10	5.1	0.34
117	org52117_c	-3.030	0.054	1.04	1.1	0.30
118	org52118_c	-3.616	0.067	1.04	0.7	0.26
119	org52119_c	-2.266	0.043	1.08	2.8	0.32
120	org52120_c	0.207	0.031	1.15	11.4	0.31
121	org52121_c	-1.408	0.035	1.05	2.5	0.39
122	org52122_c	-2.342	0.044	1.03	1.2	0.36
123	org52123_c	-2.421	0.045	1.02	0.8	0.37
124	org52124_c	-1.453	0.036	1.17	8.8	0.28
125	org52125_c	-0.578	0.032	1.05	3.5	0.40
126	org52126_c	-0.373	0.031	1.08	6.1	0.38
127	org52127_c	-1.593	0.037	1.10	5.0	0.34
128	org52128_c	-0.749	0.032	0.93	-5.3	0.50
129	org52129_c	-0.735	0.032	0.95	-3.7	0.48
130	org52130_c	-0.516	0.032	1.08	6.2	0.37
131	org52131_c	-2.176	0.042	1.05	1.8	0.37
132	org52132_c	-2.638	0.048	0.98	-0.5	0.39
133	org52133_c	-1.924	0.039	1.10	4.1	0.32
134	org52134_c	-4.508	0.096	0.99	-0.1	0.29
135	org52135_c	-0.808	0.032	1.04	2.3	0.41
136	org52136_c	-2.636	0.048	0.99	-0.4	0.39
137	org52137_c	-2.023	0.040	1.07	3.0	0.34
138	org52138_c	0.080	0.031	1.11	8.5	0.36
139	org52139_c	-4.236	0.086	0.99	-0.1	0.29
140	org52140_c	-0.408	0.031	1.01	0.7	0.43
141	org52141_c	-2.187	0.042	0.91	-3.5	0.49
142	org52142_c	-1.647	0.037	0.95	-2.8	0.49
143	org52143_c	-3.455	0.063	0.92	-1.6	0.40
144	org52144_c	-1.257	0.034	1.12	7.1	0.34
145	org52145_c	-1.267	0.034	1.06	3.8	0.38
146	org52146_c	-2.425	0.045	0.93	-2.4	0.46
147	org52147_c	-1.988	0.040	0.99	-0.3	0.42
148	org52148_c	-0.604	0.032	1.07	5.5	0.40
149	org52149_c	-1.581	0.036	1.11	5.6	0.33
150	org52150_c	-3.455	0.063	0.92	-1.7	0.41
151	org52151_c	-2.830	0.051	0.97	-0.8	0.39
152	org52152_c	-2.249	0.043	1.02	0.8	0.38
153	org52153_c	-3.594	0.066	0.99	-0.2	0.34
154	org52154_c	-4.312	0.089	0.98	-0.2	0.31
155	org52155_c	-2.618	0.047	1.07	2.1	0.31
156	org52156_c	-3.607	0.067	1.00	0.1	0.30
157	org52157_c	-2.671	0.048	1.06	1.9	0.31
158	org52158_c	-2.757	0.050	1.01	0.4	0.36
159	org52159_c	-2.492	0.046	0.97	-1.0	0.43
160	org52160_c	-3.239	0.058	1.04	0.9	0.29
161	org52161_c	-0.846	0.033	1.10	6.6	0.36
162	org52162_c	-4.250	0.086	0.98	-0.3	0.33
163	org52163_c	-1.908	0.039	0.98	-1.0	0.45

164	org52164_c	-2.096	0.041	1.02	0.8	0.39
165	org52165_c	-0.370	0.031	1.17	13.0	0.30
166	org52166_c	-3.744	0.070	0.94	-1.0	0.39
167	org52167_c	-2.936	0.053	0.95	-1.2	0.41
168	org52168_c	-4.199	0.085	0.98	-0.3	0.33
169	org52169_c	-3.484	0.064	0.93	-1.4	0.40
170	org52170_c	0.802	0.033	1.06	4.2	0.32
171	org52171_c	0.910	0.033	0.99	-0.8	0.37
172	org52172_c	-1.956	0.040	1.13	5.2	0.27
173	org52173_c	-1.375	0.035	1.03	1.9	0.41
174	org52174_c	-3.287	0.059	0.95	-1.2	0.39
175	org52175_c	-4.192	0.084	0.96	-0.6	0.35
176	org52176_c	-3.106	0.056	0.94	-1.5	0.41
177	org52177_c	-1.225	0.034	0.95	-2.9	0.49
178	org52178_c	-0.635	0.032	0.99	-0.6	0.44
179	org52179_c	-3.662	0.068	0.93	-1.2	0.39
180	org52180_c	-1.715	0.037	1.04	1.8	0.40
181	org52181_c	-2.333	0.044	0.87	-4.7	0.53

Table 6

Whole-Word Level Grade 7

	ITEM	ITEM DIFFICULTY		WEIGHTED FIT		DISCRIMINATION
		ESTIMATE	SE	MNSQ	T	ESTIMATE
1	org51023_sc3g7_c	-0.422	0.030	0.95	-4.2	0.55
2	org51030_sc3g7_c	-0.612	0.030	0.99	-1.0	0.52
3	org51040_sc3g7_c	-3.035	0.050	0.92	-2.3	0.41
4	org51003_sc3g7_c	-1.710	0.035	0.92	-4.0	0.52
5	org51015_sc3g7_c	-1.245	0.033	0.92	-5.3	0.55
6	org51011_sc3g7_c	-0.211	0.030	1.03	2.1	0.50
7	org51004_sc3g7_c	1.477	0.033	1.00	-0.3	0.43
8	org51042_sc3g7_c	0.889	0.031	1.06	4.4	0.44
9	org51038_sc3g7_c	-0.367	0.030	1.07	5.2	0.46
10	org51037_sc3g7_c	-0.779	0.031	1.04	2.5	0.48
11	org51041_sc3g7_c	0.548	0.030	0.82	-14.8	0.60
12	org51033_sc3g7_c	-2.538	0.043	0.96	-1.4	0.42
13	org51009_sc3g7_c	-0.396	0.030	0.97	-2.3	0.54
14	org51031_sc3g7_c	0.914	0.031	0.91	-6.6	0.53
15	org51010_sc3g7_c	-0.862	0.031	1.05	3.4	0.47
16	org51032_sc3g7_c	-0.011	0.029	0.87	-10.5	0.59
17	org51035_sc3g7_c	-1.566	0.034	1.05	2.5	0.44
18	org71001_c	-0.775	0.031	0.87	-9.8	0.61
19	org71002_c	-1.525	0.034	1.08	4.3	0.42
20	org71003_c	0.454	0.030	1.01	1.1	0.48
21	org71004_c	1.185	0.032	0.95	-3.5	0.45
22	org71005_c	-0.675	0.030	1.07	5.3	0.46
23	org71006_c	-1.161	0.032	0.93	-4.7	0.56
24	org71007_c	1.312	0.032	0.96	-2.9	0.46
25	org71008_c	1.077	0.031	0.97	-2.3	0.46
26	org71009_c	0.523	0.030	1.00	-0.0	0.49
27	org71010_c	-2.194	0.039	1.00	0.1	0.43
28	org71011_c	0.398	0.030	0.97	-2.8	0.52
29	org71012_c	-0.868	0.031	1.03	2.2	0.48
30	org71013_c	0.847	0.031	1.10	7.4	0.35
31	org71014_c	-0.470	0.030	1.09	6.4	0.45
32	org71015_c	-1.326	0.033	0.92	-4.9	0.55
33	org71016_c	1.222	0.032	0.93	-5.0	0.50
34	org71017_c	-0.203	0.030	1.04	3.0	0.49
35	org71018_c	-2.227	0.040	1.04	1.6	0.40
36	org71019_c	-2.299	0.040	0.86	-5.9	0.53
37	org71020_c	-0.237	0.030	1.16	11.9	0.40
38	org71021_c	1.788	0.035	1.10	5.2	0.33
39	org71022_c	-1.893	0.037	0.89	-5.6	0.53
40	org71023_c	-0.645	0.030	1.05	3.6	0.47
41	org71024_c	-0.174	0.030	1.18	13.6	0.38
42	org71025_c	-2.370	0.041	0.98	-0.7	0.43
43	org71026_c	0.580	0.030	0.98	-1.5	0.51

44	org71027_c	-1.102	0.032	1.20	12.2	0.35
45	org71028_c	0.075	0.029	1.11	8.3	0.42
46	org71029_c	-2.107	0.038	0.95	-2.1	0.47
47	org71030_c	-0.577	0.030	0.82	-14.1	0.64
48	org71031_c	0.075	0.029	1.11	8.2	0.41
49	org71032_c	-1.001	0.031	0.88	-8.1	0.59
50	org71033_c	-2.596	0.044	1.09	3.0	0.32
51	org71034_c	-3.119	0.051	1.05	1.4	0.29
52	org71035_c	-1.886	0.037	0.94	-3.2	0.50
53	org71036_c	-1.127	0.032	0.88	-7.9	0.59
54	org71037_c	-1.149	0.032	0.91	-5.7	0.57
55	org71038_c	-3.253	0.053	1.01	0.4	0.33
56	org71039_c	-2.564	0.043	1.02	0.9	0.37
57	org71040_c	-2.946	0.048	1.00	0.0	0.35
58	org71041_c	-0.796	0.031	0.99	-0.5	0.51
59	org71042_c	-4.019	0.071	0.98	-0.4	0.29
60	org71043_c	0.813	0.030	1.18	12.4	0.36
61	org71044_c	-0.749	0.031	0.99	-1.0	0.52
62	org71045_c	-1.424	0.033	1.18	9.6	0.35
63	org71046_c	-1.919	0.037	0.96	-2.0	0.48
64	org71047_c	-3.540	0.059	0.97	-0.7	0.33
65	org71048_c	0.243	0.029	0.89	-9.0	0.56
66	org71049_c	-2.352	0.041	0.93	-2.7	0.47
67	org71050_c	-0.549	0.030	0.88	-9.1	0.60
68	org71051_c	-0.560	0.030	1.16	11.1	0.40
69	org71052_c	-2.007	0.038	0.96	-1.9	0.47
70	org71053_c	-3.462	0.057	0.99	-0.3	0.32
71	org71054_c	-0.845	0.031	1.01	0.8	0.50
72	org71055_c	-3.492	0.058	0.94	-1.5	0.36
73	org71056_c	0.413	0.030	0.91	-7.2	0.56
74	org71057_c	-0.802	0.031	0.92	-6.2	0.57
75	org71058_c	-0.357	0.030	1.12	8.8	0.43
76	org71059_c	-1.610	0.035	0.94	-3.3	0.51
77	org71060_c	-0.811	0.031	0.99	-0.6	0.51
78	org71061_c	-2.965	0.049	1.03	1.0	0.32

Table 7

Structural-Unit Level Grade 7

	ITEM	ITEM DIFFICULTY		WEIGHTED FIT		DISCRIMINATION
		ESTIMATE	SE	MNSQ	T	ESTIMATE
1	org52060_sc3g7_c	-1.512	0.035	1.01	0.6	0.44
2	org52163_sc3g7_c	-2.620	0.047	0.97	-0.8	0.44
3	org52016_sc3g7_c	-4.174	0.081	1.02	0.3	0.31
4	org52133_sc3g7_c	-2.668	0.047	1.09	2.7	0.32
5	org52107_sc3g7_c	-3.321	0.059	1.10	2.2	0.27
6	org52078_sc3g7_c	-3.314	0.058	1.04	0.8	0.33
7	org52175_sc3g7_c	-5.389	0.135	1.08	0.6	0.27
8	org52168_sc3g7_c	-5.445	0.138	1.09	0.7	0.26
9	org52139_sc3g7_c	-4.847	0.107	1.04	0.4	0.30
10	org52169_sc3g7_c	-4.255	0.084	0.97	-0.5	0.39
11	org52138_sc3g7_c	-0.847	0.031	1.08	5.0	0.41
12	org52068_sc3g7_c	-2.259	0.042	0.95	-1.8	0.47
13	org52109_sc3g7_c	-5.353	0.133	1.07	0.6	0.29
14	org52073_sc3g7_c	-3.222	0.057	0.94	-1.3	0.43
15	org52032_sc3g7_c	-4.031	0.077	0.99	-0.1	0.35
16	org52096_sc3g7_c	-3.342	0.059	0.94	-1.3	0.42
17	org52074_sc3g7_c	-3.974	0.075	0.99	-0.1	0.35
18	org52082_sc3g7_c	-2.590	0.046	0.94	-2.1	0.47
19	org52153_sc3g7_c	-4.546	0.094	1.05	0.7	0.27
20	org52116_sc3g7_c	-2.840	0.050	1.06	1.8	0.33
21	org52086_sc3g7_c	-2.445	0.044	0.99	-0.5	0.43
22	org52129_sc3g7_c	-2.245	0.042	0.95	-1.9	0.47
23	org52128_sc3g7_c	-2.765	0.049	0.99	-0.3	0.41
24	org52048_sc3g7_c	-1.974	0.039	1.12	4.9	0.34
25	org52125_sc3g7_c	-1.537	0.035	1.13	6.4	0.35
26	org52007_sc3g7_c	-4.214	0.082	1.05	0.7	0.27
27	org52126_sc3g7_c	-1.090	0.033	1.12	7.3	0.37
28	org52043_sc3g7_c	-1.362	0.034	1.14	7.3	0.34
29	org52002_sc3g7_c	0.325	0.029	1.11	8.5	0.36
30	org52119_sc3g7_c	-2.945	0.052	1.10	2.7	0.28
31	org52178_sc3g7_c	-1.886	0.038	0.96	-1.6	0.47
32	org52148_sc3g7_c	-1.746	0.037	1.13	5.9	0.35
33	org52033_sc3g7_c	-4.091	0.078	1.02	0.4	0.31
34	org52147_sc3g7_c	-3.946	0.074	1.00	-0.0	0.34
35	org52098_sc3g7_c	-1.741	0.037	0.98	-1.1	0.47
36	org52112_sc3g7_c	-1.963	0.039	0.98	-0.9	0.46
37	org52059_sc3g7_c	-3.898	0.073	1.04	0.6	0.30
38	org52029_sc3g7_c	-3.234	0.057	1.01	0.3	0.36
39	org52072_sc3g7_c	-4.291	0.085	1.04	0.5	0.28
40	org52144_sc3g7_c	-1.948	0.039	1.12	5.0	0.34
41	org52030_sc3g7_c	-4.687	0.100	1.01	0.1	0.34
42	org52143_sc3g7_c	-4.477	0.092	1.01	0.2	0.33
43	org52111_sc3g7_c	-2.758	0.049	0.97	-1.0	0.44
44	org52176_sc3g7_c	-4.419	0.089	1.02	0.2	0.32
45	org52071_sc3g7_c	-0.813	0.031	1.06	3.9	0.42
46	org52075_sc3g7_c	-3.564	0.064	1.02	0.5	0.32
47	org52146_sc3g7_c	-3.777	0.069	0.98	-0.4	0.38
48	org52097_sc3g7_c	-2.006	0.039	1.13	5.1	0.33
49	org52093_sc3g7_c	-3.102	0.054	0.92	-2.1	0.47

50	org52069_sc3g7_c	-4.067	0.078	1.01	0.1	0.33
51	org52070_sc3g7_c	-3.174	0.056	1.06	1.5	0.31
52	org52142_sc3g7_c	-3.424	0.061	0.97	-0.7	0.40
53	org52094_sc3g7_c	-2.283	0.042	0.94	-2.2	0.48
54	org52154_sc3g7_c	-5.353	0.133	1.07	0.6	0.29
55	org52083_sc3g7_c	-0.500	0.030	0.97	-2.2	0.47
56	org52006_sc3g7_c	-3.277	0.058	1.09	2.1	0.26
57	org52170_sc3g7_c	0.275	0.029	0.97	-2.5	0.42
58	org52140_sc3g7_c	-1.488	0.035	1.03	1.5	0.43
59	org52092_sc3g7_c	-0.533	0.030	1.05	3.7	0.43
60	org52084_sc3g7_c	-1.686	0.036	1.03	1.2	0.43
61	org52123_sc3g7_c	-3.556	0.064	1.01	0.2	0.35
62	org52025_sc3g7_c	-2.682	0.047	1.01	0.3	0.40
63	org52171_sc3g7_c	-0.013	0.029	0.92	-6.4	0.47
64	org52141_sc3g7_c	-3.564	0.064	0.95	-1.1	0.42
65	org52173_sc3g7_c	-2.138	0.041	1.11	4.3	0.34
66	org52027_sc3g7_c	-2.945	0.052	1.11	2.9	0.27
67	org52028_sc3g7_c	-5.087	0.118	1.04	0.4	0.33
68	org52026_sc3g7_c	-4.037	0.077	1.00	-0.0	0.35
69	org52110_sc3g7_c	-3.359	0.059	0.95	-1.2	0.44
70	org72001_c	-1.732	0.037	0.87	-6.4	0.56
71	org72002_c	-0.928	0.032	0.90	-6.7	0.53
72	org72003_c	-2.682	0.047	0.96	-1.3	0.44
73	org72004_c	-3.698	0.067	0.97	-0.6	0.38
74	org72005_c	-1.840	0.038	1.08	3.4	0.39
75	org72006_c	-0.139	0.030	1.12	9.1	0.37
76	org72007_c	-3.421	0.061	0.96	-0.8	0.40
77	org72008_c	-3.147	0.055	0.93	-1.7	0.46
78	org72009_c	1.313	0.031	0.97	-1.8	0.33
79	org72010_c	-1.054	0.032	0.95	-3.5	0.50
80	org72011_c	-2.877	0.050	1.07	1.9	0.33
81	org72012_c	-1.270	0.034	1.18	9.7	0.33
82	org72013_c	-2.974	0.052	0.96	-1.2	0.44
83	org72014_c	-0.270	0.030	0.93	-5.2	0.49
84	org72015_c	1.054	0.031	1.06	4.1	0.34
85	org72016_c	-2.713	0.048	1.09	2.8	0.31
86	org72017_c	0.967	0.030	1.04	2.9	0.33
87	org72018_c	-1.750	0.037	1.14	6.4	0.34
88	org72019_c	0.439	0.029	1.08	6.4	0.35
89	org72020_c	-2.130	0.040	0.98	-0.6	0.44
90	org72021_c	-2.186	0.041	1.01	0.3	0.43
91	org72022_c	-2.407	0.044	0.99	-0.5	0.44
92	org72023_c	-0.947	0.032	1.07	4.2	0.41
93	org72024_c	-1.710	0.037	0.91	-4.3	0.53
94	org72025_c	-3.225	0.057	0.97	-0.7	0.40
95	org72026_c	-1.630	0.036	0.97	-1.7	0.48
96	org72027_c	-2.438	0.044	0.90	-3.7	0.52
97	org72028_c	-3.374	0.060	0.95	-1.2	0.42
98	org72029_c	-1.751	0.037	0.93	-3.5	0.51
99	org72030_c	-3.963	0.074	0.91	-1.6	0.46
100	org72031_c	-3.447	0.061	0.91	-1.9	0.46
101	org72032_c	-0.610	0.031	1.15	10.3	0.36
102	org72033_c	-3.569	0.064	0.98	-0.3	0.37
103	org72034_c	-2.985	0.052	0.87	-3.6	0.52
104	org72035_c	-1.466	0.035	0.98	-1.0	0.47
105	org72036_c	-1.385	0.034	1.03	1.8	0.43
106	org72037_c	-2.445	0.044	0.95	-1.6	0.47

107	org72038_c	1.159	0.031	0.98	-1.7	0.39
108	org72039_c	-0.954	0.032	0.92	-5.0	0.51
109	org72040_c	-2.813	0.049	1.03	0.8	0.38
110	org72041_c	-3.744	0.068	0.95	-1.0	0.41
111	org72042_c	-3.569	0.064	0.95	-1.0	0.41
112	org72043_c	-3.512	0.063	0.95	-1.1	0.41
113	org72044_c	-2.765	0.049	0.93	-2.1	0.47
114	org72045_c	-3.428	0.061	0.93	-1.6	0.45
115	org72046_c	-3.581	0.064	0.94	-1.2	0.42
116	org72047_c	-2.926	0.051	0.90	-3.0	0.50
117	org72048_c	-2.613	0.046	0.92	-2.7	0.49
118	org72049_c	-2.255	0.042	1.04	1.4	0.40
119	org72050_c	-1.795	0.037	0.99	-0.6	0.45
120	org72051_c	-2.212	0.041	0.93	-2.6	0.49
121	org72052_c	-2.739	0.048	0.87	-4.1	0.53
122	org72053_c	-4.073	0.078	0.94	-0.9	0.41
123	org72054_c	-2.290	0.042	1.02	0.9	0.41
124	org72055_c	-2.716	0.048	0.97	-0.8	0.43
125	org72056_c	-2.451	0.044	1.01	0.4	0.41
126	org72057_c	-2.321	0.043	0.99	-0.4	0.44
127	org72058_c	-2.888	0.051	1.03	0.8	0.36
128	org72059_c	-1.808	0.037	0.90	-4.9	0.53
129	org72060_c	-2.911	0.051	1.13	3.4	0.26
130	org72061_c	-0.962	0.032	1.19	11.8	0.33
131	org72062_c	-2.238	0.042	1.02	0.6	0.42
132	org72063_c	-0.868	0.032	1.05	3.1	0.42
133	org72064_c	-1.569	0.036	1.07	3.7	0.40
134	org72065_c	-3.946	0.074	0.93	-1.1	0.42
135	org72066_c	-0.030	0.029	1.17	13.2	0.31
136	org72067_c	-3.359	0.059	0.92	-1.8	0.46
137	org72068_c	-3.187	0.056	0.88	-2.9	0.50
138	org72069_c	-2.373	0.043	1.00	0.1	0.42
139	org72070_c	-0.469	0.030	0.87	-10.3	0.53
140	org72071_c	-4.187	0.081	0.99	-0.1	0.35
141	org72072_c	-4.104	0.079	1.02	0.3	0.31
142	org72073_c	-2.913	0.051	0.98	-0.6	0.42
143	org72074_c	-2.825	0.050	0.93	-2.1	0.47
144	org72075_c	-1.157	0.033	0.94	-3.7	0.50
145	org72076_c	-2.239	0.042	1.17	6.1	0.28
146	org72077_c	-0.207	0.030	0.97	-2.4	0.47
147	org72078_c	2.207	0.037	1.00	0.1	0.27
148	org72079_c	2.167	0.037	0.99	-0.6	0.28
149	org72080_c	-0.112	0.030	1.02	1.8	0.43
150	org72081_c	-0.428	0.030	0.91	-6.9	0.51
151	org72082_c	-2.961	0.052	1.05	1.2	0.34
152	org72083_c	2.399	0.039	0.99	-0.5	0.26
153	org72084_c	-1.860	0.038	1.15	6.2	0.33
154	org72085_c	-2.980	0.052	1.05	1.3	0.34
155	org72086_c	0.240	0.029	0.96	-3.6	0.46
156	org72087_c	0.688	0.030	1.07	5.6	0.37
157	org72088_c	-1.948	0.039	1.13	5.5	0.34
158	org72089_c	-1.076	0.033	0.89	-7.3	0.54
159	org72090_c	-0.588	0.031	0.92	-5.9	0.51
160	org72091_c	-3.640	0.066	1.01	0.3	0.34
161	org72092_c	-2.529	0.045	1.05	1.7	0.36
162	org72093_c	-3.872	0.072	1.00	-0.0	0.34
163	org72094_c	-3.338	0.059	1.05	1.0	0.32

164	org72095_c	-3.730	0.068	1.03	0.7	0.31
165	org72096_c	-3.772	0.069	1.02	0.3	0.32
166	org72097_c	-4.519	0.093	1.00	0.0	0.34
167	org72098_c	-4.738	0.102	0.96	-0.5	0.42
168	org72099_c	-4.780	0.104	0.96	-0.4	0.41
169	org72100_c	-4.802	0.105	1.00	0.0	0.36
170	org72101_c	-3.215	0.056	1.03	0.7	0.34
171	org72102_c	-4.452	0.091	1.00	-0.0	0.34
172	org72103_c	-4.129	0.080	1.05	0.7	0.27
173	org72104_c	-4.460	0.091	0.99	-0.2	0.36
174	org72105_c	-2.059	0.040	0.95	-2.0	0.48
175	org72106_c	-2.485	0.045	1.08	2.7	0.34
176	org72107_c	-4.738	0.102	0.99	-0.1	0.37
177	org72108_c	-4.419	0.089	0.98	-0.3	0.37
178	org72109_c	-3.497	0.062	0.94	-1.2	0.42
179	org72110_c	-3.763	0.069	0.91	-1.6	0.45
180	org72111_c	-1.312	0.034	0.91	-5.3	0.54
181	org72112_c	-2.827	0.050	0.94	-1.7	0.46
182	org72113_c	-2.720	0.048	0.94	-2.0	0.47
183	org72114_c	-1.470	0.035	1.06	3.3	0.40
184	org72115_c	-4.020	0.076	1.06	0.9	0.26
185	org72116_c	-4.619	0.097	1.05	0.6	0.27
186	org72117_c	-4.954	0.112	0.99	-0.1	0.39
187	org72118_c	-4.667	0.099	0.96	-0.4	0.40
188	org72119_c	-4.276	0.084	0.94	-0.8	0.42
189	org72120_c	-3.857	0.071	0.95	-0.8	0.39
190	org72121_c	-4.067	0.078	0.92	-1.2	0.43
191	org72122_c	-4.214	0.082	0.98	-0.3	0.36
192	org72123_c	-3.851	0.071	0.96	-0.7	0.40
193	org72124_c	-4.967	0.112	0.98	-0.2	0.41
194	org72125_c	-4.161	0.081	0.96	-0.5	0.38
195	org72126_c	-2.584	0.046	1.03	1.1	0.38
196	org72127_c	-4.002	0.076	1.01	0.2	0.33
197	org72128_c	-0.328	0.030	0.86	-11.6	0.54
198	org72129_c	-4.248	0.083	1.01	0.2	0.32
199	org72130_c	-4.905	0.110	1.06	0.7	0.26
200	org72131_c	-2.411	0.044	1.08	2.9	0.35
201	org72132_c	-5.205	0.125	1.04	0.4	0.34
202	org72133_c	-4.546	0.094	0.99	-0.1	0.36
203	org72134_c	-4.357	0.087	1.01	0.2	0.32
204	org72135_c	-4.628	0.097	1.00	0.0	0.35
205	org72136_c	-4.759	0.103	0.98	-0.2	0.40
206	org72137_c	-5.144	0.121	1.07	0.6	0.27
207	org72138_c	-4.954	0.112	0.98	-0.1	0.40
208	org72139_c	-2.953	0.052	1.02	0.6	0.36
209	org72140_c	-4.494	0.092	1.02	0.3	0.31
210	org72141_c	-1.977	0.039	0.98	-0.7	0.45
211	org72142_c	-2.893	0.051	0.99	-0.2	0.40
212	org72143_c	-1.229	0.033	1.09	5.3	0.39
213	org72144_c	-3.540	0.063	1.09	1.8	0.26
214	org72145_c	-4.436	0.090	0.99	-0.1	0.35
215	org72146_c	-4.738	0.102	1.03	0.3	0.31
216	org72147_c	-4.141	0.080	0.96	-0.6	0.40
217	org72148_c	-4.511	0.093	1.01	0.2	0.32
218	org72149_c	-5.426	0.137	1.06	0.5	0.32
219	org72150_c	-4.194	0.082	1.01	0.1	0.32
220	org72151_c	-5.073	0.118	1.04	0.4	0.30

221	org72152_c	-3.963	0.074	0.92	-1.3	0.43
222	org72153_c	-4.707	0.101	0.95	-0.5	0.42
223	org72154_c	-4.148	0.080	0.91	-1.4	0.46
224	org72155_c	-2.319	0.043	1.09	3.1	0.34
225	org72156_c	-2.495	0.045	0.98	-0.7	0.43
226	org72157_c	-5.407	0.136	1.05	0.4	0.34
227	org72158_c	-4.305	0.085	1.01	0.1	0.32
228	org72159_c	-3.974	0.075	0.92	-1.3	0.43
229	org72160_c	-3.585	0.065	1.08	1.6	0.26
230	org72161_c	-3.753	0.069	1.02	0.4	0.33
231	org72162_c	-3.159	0.055	1.01	0.3	0.36
232	org72163_c	-2.983	0.052	1.06	1.7	0.33
233	org72164_c	-3.969	0.075	1.04	0.6	0.28
234	org72165_c	-5.159	0.122	1.06	0.5	0.29
235	org72166_c	-4.207	0.082	1.01	0.2	0.32
236	org72167_c	-3.867	0.072	1.00	0.1	0.34
237	org72168_c	-4.180	0.081	0.97	-0.4	0.38
238	org72169_c	-3.721	0.068	0.92	-1.5	0.45
239	org72170_c	-4.485	0.092	1.00	0.0	0.34
240	org72171_c	-4.717	0.101	0.98	-0.2	0.39
241	org72172_c	-2.544	0.045	0.90	-3.3	0.51
242	org72173_c	-3.096	0.054	0.95	-1.2	0.43
243	org72174_c	-3.206	0.056	1.05	1.1	0.33
244	org72175_c	-1.067	0.032	0.94	-3.6	0.50
245	org72176_c	-3.606	0.065	0.96	-0.8	0.40
246	org72177_c	-2.855	0.050	1.07	2.1	0.32
247	org72178_c	-4.600	0.096	0.94	-0.7	0.43
248	org72179_c	-2.607	0.046	1.02	0.6	0.39
249	org72180_c	-2.929	0.051	0.93	-1.8	0.46
250	org72181_c	-3.985	0.075	0.94	-0.9	0.41
251	org72182_c	-3.763	0.069	0.94	-1.0	0.42
252	org72183_c	-3.653	0.066	0.97	-0.6	0.38
253	org72184_c	-4.167	0.081	0.98	-0.2	0.36
254	org72185_c	-4.628	0.097	0.97	-0.3	0.40
255	org72186_c	-3.985	0.075	1.00	-0.0	0.34
256	org72187_c	-2.097	0.040	1.15	5.6	0.32
257	org72188_c	-2.159	0.041	1.03	1.0	0.41
258	org72189_c	-0.956	0.032	0.92	-5.2	0.52
259	org72190_c	-4.061	0.077	0.97	-0.4	0.37
260	org72191_c	-2.818	0.049	1.01	0.4	0.38
261	org72192_c	-2.613	0.046	1.06	1.9	0.36
262	org72193_c	-4.085	0.078	0.96	-0.6	0.39
263	org72194_c	-4.555	0.095	1.00	0.0	0.34
264	org72195_c	-4.020	0.076	1.04	0.7	0.27
265	org72196_c	-4.312	0.086	1.03	0.5	0.29
266	org72197_c	-2.994	0.052	1.03	0.9	0.36
267	org72198_c	-3.615	0.065	0.92	-1.6	0.45
268	org72199_c	-5.205	0.125	1.03	0.3	0.35
269	org72200_c	-5.144	0.121	1.05	0.4	0.29
270	org72201_c	-5.302	0.130	1.01	0.1	0.40
271	org72202_c	-2.779	0.049	1.11	3.1	0.29
272	org72203_c	0.012	0.029	0.90	-8.0	0.50
273	org72204_c	-1.239	0.033	1.05	3.0	0.43
274	org72205_c	-3.260	0.057	0.93	-1.6	0.45
275	org72206_c	-2.442	0.044	0.96	-1.3	0.45
276	org72207_c	-1.489	0.035	1.04	1.9	0.41
277	org72208_c	-4.110	0.079	1.04	0.6	0.29

278	org72209_c	-4.234	0.083	1.01	0.1	0.33
279	org72210_c	-3.280	0.058	1.09	2.0	0.28
280	org72211_c	-3.811	0.070	0.96	-0.8	0.40
281	org72212_c	-3.162	0.055	0.99	-0.1	0.38
282	org72213_c	-3.395	0.060	0.98	-0.3	0.39
283	org72214_c	-3.707	0.068	0.94	-1.0	0.42
284	org72215_c	-3.957	0.074	0.92	-1.3	0.43
285	org72216_c	-4.411	0.089	1.03	0.4	0.30
286	org72217_c	-4.870	0.108	1.05	0.5	0.27
287	org72218_c	-3.311	0.058	0.99	-0.2	0.38
288	org72219_c	-3.792	0.070	0.95	-0.9	0.40
289	org72220_c	-4.091	0.078	0.96	-0.7	0.39
290	org72221_c	-2.948	0.052	0.99	-0.2	0.40
291	org72222_c	-4.091	0.078	0.97	-0.4	0.37
292	org72223_c	-2.662	0.047	0.95	-1.4	0.46
293	org72224_c	-2.569	0.046	0.96	-1.3	0.45
294	org72225_c	-2.620	0.047	1.03	0.8	0.38
295	org72226_c	-2.278	0.042	1.08	3.1	0.36
296	org72227_c	-2.164	0.041	1.00	0.0	0.44
297	org72228_c	-3.658	0.066	0.94	-1.2	0.42
298	org72229_c	-2.969	0.052	0.97	-0.9	0.43
299	org72230_c	-3.739	0.068	0.99	-0.2	0.36
300	org72231_c	-4.334	0.086	0.96	-0.5	0.39
301	org72232_c	-2.937	0.051	1.02	0.5	0.37

Table 8

Whole-Word Level Grade 9

	ITEM	ITEM DIFFICULTY		WEIGHTED FIT		DISCRIMINATION
		ESTIMATE	SE	MNSQ	T	ESTIMATE
1	org51030_sc3g9_c	-1.479	0.039	1.04	1.9	0.49
2	org51040_sc3g9_c	-4.128	0.081	0.94	-1.0	0.37
3	org51011_sc3g9_c	-1.518	0.039	1.03	1.4	0.49
4	org51004_sc3g9_c	0.583	0.034	1.06	3.7	0.46
5	org51042_sc3g9_c	0.066	0.034	1.09	6.2	0.47
6	org51038_sc3g9_c	-1.173	0.037	1.05	2.9	0.49
7	org51037_sc3g9_c	-1.941	0.042	1.05	2.1	0.45
8	org51009_sc3g9_c	-1.551	0.039	1.01	0.5	0.50
9	org51031_sc3g9_c	0.135	0.034	0.99	-0.9	0.52
10	org51032_sc3g9_c	-0.651	0.035	0.87	-8.6	0.62
11	org71001_sc3g9_c	-2.164	0.044	0.91	-3.7	0.54
12	org71002_sc3g9_c	-2.528	0.048	1.02	0.8	0.43
13	org71003_sc3g9_c	-0.723	0.035	1.03	2.1	0.51
14	org71004_sc3g9_c	0.470	0.034	0.85	-10.6	0.58
15	org71005_sc3g9_c	-1.951	0.042	1.01	0.5	0.48
16	org71006_sc3g9_c	-2.087	0.043	0.89	-4.6	0.57
17	org71007_sc3g9_c	0.293	0.034	1.02	1.3	0.50
18	org71008_sc3g9_c	0.062	0.034	0.92	-5.6	0.56
19	org71009_sc3g9_c	-0.670	0.035	1.02	1.4	0.51
20	org71010_sc3g9_c	-3.389	0.062	0.98	-0.5	0.39
21	org71011_sc3g9_c	-0.456	0.034	0.99	-0.8	0.54
22	org71012_sc3g9_c	-0.976	0.036	1.12	6.4	0.45
23	org71013_sc3g9_c	-0.052	0.034	0.97	-2.1	0.52
24	org71014_sc3g9_c	-1.264	0.037	1.09	4.7	0.46
25	org71015_sc3g9_c	-2.415	0.047	0.92	-2.9	0.51
26	org71016_sc3g9_c	0.052	0.034	0.92	-5.4	0.57
27	org71017_sc3g9_c	-1.230	0.037	1.01	0.6	0.52
28	org71018_sc3g9_c	-2.830	0.053	1.01	0.3	0.40
29	org71019_sc3g9_c	-3.122	0.057	0.86	-3.6	0.50
30	org71020_sc3g9_c	-0.905	0.036	1.14	7.8	0.44
31	org71021_sc3g9_c	0.970	0.035	1.13	7.8	0.38
32	org71022_sc3g9_c	-2.664	0.050	0.94	-2.0	0.47
33	org71023_sc3g9_c	-1.598	0.039	1.01	0.4	0.51
34	org71024_sc3g9_c	-0.362	0.034	1.15	9.3	0.43
35	org71025_sc3g9_c	-3.206	0.059	0.99	-0.1	0.38
36	org71026_sc3g9_c	-0.416	0.034	0.99	-0.6	0.54
37	org71027_sc3g9_c	-2.093	0.044	1.12	4.6	0.39
38	org71028_sc3g9_c	-0.441	0.034	1.10	6.3	0.46
39	org71029_sc3g9_c	-2.607	0.049	0.98	-0.8	0.45
40	org71030_sc3g9_c	-1.484	0.039	0.84	-8.1	0.63
41	org71031_sc3g9_c	-1.031	0.036	0.99	-0.8	0.54
42	org71032_sc3g9_c	-1.982	0.042	0.92	-3.4	0.55
43	org91001_c	-1.167	0.037	1.02	0.9	0.51

44	org91002_c	-4.216	0.083	0.94	-0.9	0.36
45	org91003_c	-4.059	0.079	0.92	-1.3	0.38
46	org91004_c	-0.509	0.034	0.92	-5.1	0.58
47	org91005_c	-0.679	0.035	0.92	-5.4	0.59
48	org91006_c	-2.430	0.047	0.87	-4.5	0.54
49	org91007_c	-3.139	0.058	1.10	2.4	0.26
50	org91008_c	-0.332	0.034	0.95	-3.5	0.56
51	org91009_c	-4.103	0.080	0.94	-1.0	0.36
52	org91010_c	-1.475	0.039	1.13	5.9	0.43
53	org91011_c	1.303	0.036	0.88	-7.4	0.51
54	org91012_c	-1.838	0.041	0.91	-4.1	0.55
55	org91013_c	-2.063	0.043	0.98	-0.9	0.50
56	org91014_c	-1.061	0.036	0.86	-8.1	0.63
57	org91015_c	-0.751	0.035	1.06	3.6	0.49
58	org91016_c	-2.898	0.054	0.90	-2.8	0.49
59	org91017_c	-3.630	0.068	0.89	-2.2	0.43
60	org91018_c	-0.620	0.035	1.06	3.8	0.49
61	org91019_c	-0.746	0.035	1.05	3.2	0.50
62	org91020_c	-1.343	0.038	1.07	3.7	0.47
63	org91021_c	-0.904	0.036	0.93	-4.3	0.58
64	org91022_c	1.010	0.035	1.09	5.5	0.41
65	org91023_c	-0.874	0.036	1.11	6.1	0.45
66	org91024_c	-0.864	0.035	0.93	-4.3	0.58
67	org91025_c	-3.764	0.071	0.91	-1.8	0.41
68	org91026_c	0.007	0.034	0.85	-10.5	0.61
69	org91027_c	-1.184	0.037	1.16	8.2	0.42
70	org91028_c	-0.819	0.035	0.85	-9.8	0.64
71	org91029_c	-2.521	0.048	1.01	0.3	0.44
72	org91030_c	-1.650	0.040	0.95	-2.3	0.53
73	org91031_c	-1.472	0.039	1.04	1.7	0.49
74	org91032_c	-2.031	0.043	1.08	3.1	0.42
75	org91033_c	-0.680	0.035	1.13	7.6	0.44
76	org91034_c	-2.836	0.053	1.00	0.0	0.41
77	org91035_c	-4.182	0.082	0.92	-1.3	0.39

Table 9

Structural-UnitLevelGrade9

	ITEM	ITEM DIFFICULTY		WEIGHTED FIT		DISCRIMINATION
		ESTIMATE	SE	MNSQ	T	ESTIMATE
1	org52078_sc3g9_c	-4.166	0.082	0.97	-0.4	0.47
2	org52138_sc3g9_c	-1.880	0.042	1.13	5.4	0.39
3	org52068_sc3g9_c	-3.366	0.063	1.03	0.7	0.43
4	org52048_sc3g9_c	-3.533	0.066	1.17	3.3	0.31
5	org52126_sc3g9_c	-2.421	0.048	1.15	4.9	0.35
6	org52043_sc3g9_c	-2.904	0.054	1.14	3.7	0.35
7	org52178_sc3g9_c	-2.495	0.049	0.97	-1.1	0.50
8	org52148_sc3g9_c	-2.640	0.051	1.15	4.4	0.36
9	org52098_sc3g9_c	-3.095	0.058	1.03	0.8	0.44
10	org52112_sc3g9_c	-2.557	0.049	1.03	1.0	0.45
11	org52029_sc3g9_c	-3.878	0.075	1.05	0.8	0.40
12	org52144_sc3g9_c	-2.781	0.053	1.10	2.8	0.39
13	org52111_sc3g9_c	-3.964	0.077	0.97	-0.5	0.49
14	org52071_sc3g9_c	-2.163	0.045	1.09	3.4	0.42
15	org52075_sc3g9_c	-4.294	0.086	1.06	0.9	0.39
16	org52097_sc3g9_c	-2.516	0.049	1.10	3.2	0.41
17	org52070_sc3g9_c	-3.946	0.076	1.06	1.1	0.38
18	org52142_sc3g9_c	-4.386	0.089	1.02	0.3	0.43
19	org52094_sc3g9_c	-3.305	0.062	1.03	0.6	0.44
20	org52083_sc3g9_c	-2.029	0.043	1.06	2.2	0.43
21	org52170_sc3g9_c	-0.602	0.035	0.99	-0.8	0.46
22	org52140_sc3g9_c	-2.886	0.054	1.06	1.8	0.42
23	org52025_sc3g9_c	-3.529	0.066	1.07	1.4	0.39
24	org52171_sc3g9_c	-0.768	0.035	0.91	-5.3	0.51
25	org72001_sc3g9_c	-3.056	0.057	0.92	-2.2	0.54
26	org72002_sc3g9_c	-2.615	0.050	0.93	-2.2	0.53
27	org72003_sc3g9_c	-3.802	0.073	0.99	-0.1	0.44
28	org72004_sc3g9_c	-4.484	0.092	0.98	-0.3	0.48
29	org72005_sc3g9_c	-2.784	0.053	1.05	1.4	0.44
30	org72006_sc3g9_c	-1.531	0.039	1.09	4.3	0.44
31	org72007_sc3g9_c	-4.207	0.084	0.98	-0.4	0.47
32	org72008_sc3g9_c	-4.093	0.080	0.94	-1.0	0.51
33	org72009_sc3g9_c	0.486	0.034	0.89	-7.8	0.45
34	org72010_sc3g9_c	-2.173	0.045	0.92	-3.0	0.54
35	org72011_sc3g9_c	-3.878	0.075	1.03	0.5	0.42
36	org72012_sc3g9_c	-2.797	0.053	1.07	2.0	0.42
37	org72013_sc3g9_c	-3.923	0.076	0.95	-0.8	0.49
38	org72014_sc3g9_c	-0.307	0.034	0.93	-4.4	0.49
39	org72015_sc3g9_c	0.024	0.034	1.11	7.4	0.37
40	org72016_sc3g9_c	-3.797	0.072	1.10	1.9	0.34
41	org72017_sc3g9_c	-0.059	0.034	0.97	-1.8	0.44
42	org72018_sc3g9_c	-3.153	0.059	1.05	1.3	0.42
43	org72019_sc3g9_c	-0.866	0.036	1.10	5.7	0.39
44	org72020_sc3g9_c	-3.792	0.072	1.10	1.9	0.36
45	org72021_sc3g9_c	-3.578	0.067	1.00	-0.1	0.46
46	org72022_sc3g9_c	-3.444	0.064	0.98	-0.4	0.47
47	org72023_sc3g9_c	-2.240	0.046	1.02	0.8	0.48
48	org72024_sc3g9_c	-2.898	0.054	0.95	-1.4	0.51
49	org72025_sc3g9_c	-4.410	0.090	0.99	-0.1	0.47

50	org72026_sc3g9_c	-1.967	0.043	1.02	0.7	0.48
51	org72027_sc3g9_c	-3.587	0.068	0.89	-2.4	0.55
52	org72028_sc3g9_c	-4.173	0.083	0.91	-1.5	0.54
53	org72029_sc3g9_c	-3.231	0.060	0.82	-4.7	0.61
54	org72030_sc3g9_c	-4.418	0.090	0.90	-1.4	0.56
55	org72031_sc3g9_c	-4.264	0.085	0.89	-1.7	0.55
56	org72032_sc3g9_c	-1.585	0.040	1.18	8.1	0.39
57	org72033_sc3g9_c	-4.426	0.090	0.98	-0.3	0.47
58	org72034_sc3g9_c	-4.068	0.080	0.90	-1.7	0.54
59	org72035_sc3g9_c	-2.772	0.052	0.97	-1.0	0.50
60	org72036_sc3g9_c	-2.811	0.053	0.98	-0.6	0.49
61	org72037_sc3g9_c	-3.787	0.072	0.92	-1.6	0.53
62	org72038_sc3g9_c	-0.063	0.034	0.99	-0.9	0.46
63	org72039_sc3g9_c	-2.034	0.043	0.96	-1.7	0.52
64	org72040_sc3g9_c	-3.379	0.063	1.06	1.2	0.42
65	org72041_sc3g9_c	-4.324	0.087	0.92	-1.2	0.53
66	org72042_sc3g9_c	-4.055	0.079	0.94	-1.1	0.50
67	org72043_sc3g9_c	-4.146	0.082	0.92	-1.2	0.51
68	org72044_sc3g9_c	-3.725	0.071	0.95	-0.9	0.48
69	org72045_sc3g9_c	-4.545	0.094	0.93	-0.9	0.55
70	org72046_sc3g9_c	-4.370	0.089	0.96	-0.6	0.50
71	org72047_sc3g9_c	-3.895	0.075	0.91	-1.7	0.54
72	org72048_sc3g9_c	-3.856	0.074	0.98	-0.3	0.47
73	org72049_sc3g9_c	-3.301	0.062	1.00	-0.1	0.47
74	org72050_sc3g9_c	-3.085	0.058	1.12	3.0	0.35
75	org72051_sc3g9_c	-3.264	0.061	0.94	-1.4	0.50
76	org72052_sc3g9_c	-3.578	0.067	0.89	-2.3	0.54
77	org72053_sc3g9_c	-4.394	0.089	0.95	-0.7	0.49
78	org72054_sc3g9_c	-4.173	0.083	0.96	-0.5	0.49
79	org72055_sc3g9_c	-3.529	0.066	0.98	-0.5	0.47
80	org72056_sc3g9_c	-3.049	0.057	0.99	-0.1	0.48
81	org72057_sc3g9_c	-3.601	0.068	1.00	0.0	0.45
82	org72058_sc3g9_c	-3.994	0.078	1.08	1.4	0.36
83	org72059_sc3g9_c	-3.347	0.062	0.96	-0.8	0.49
84	org72060_sc3g9_c	-3.889	0.075	1.06	1.1	0.38
85	org72061_sc3g9_c	-1.835	0.042	1.20	8.0	0.37
86	org72062_sc3g9_c	-3.403	0.064	1.02	0.4	0.45
87	org72063_sc3g9_c	-1.783	0.041	1.03	1.4	0.46
88	org72064_sc3g9_c	-2.913	0.055	0.99	-0.3	0.48
89	org72065_sc3g9_c	-4.370	0.089	0.96	-0.6	0.49
90	org72066_sc3g9_c	-0.688	0.035	1.18	10.6	0.35
91	org72067_sc3g9_c	-4.074	0.080	0.93	-1.1	0.51
92	org72068_sc3g9_c	-3.917	0.076	0.93	-1.3	0.51
93	org72069_sc3g9_c	-3.146	0.059	1.00	0.1	0.47
94	org72070_sc3g9_c	-1.548	0.039	0.91	-4.4	0.54
95	org72071_sc3g9_c	-4.563	0.095	0.98	-0.2	0.48
96	org72072_sc3g9_c	-4.545	0.094	1.05	0.6	0.41
97	org72073_sc3g9_c	-3.958	0.077	0.98	-0.4	0.48
98	org72074_sc3g9_c	-3.761	0.072	0.94	-1.1	0.50
99	org72075_sc3g9_c	-2.308	0.046	0.95	-1.9	0.53
100	org72076_sc3g9_c	-3.347	0.062	1.03	0.7	0.43
101	org72077_sc3g9_c	-1.847	0.042	0.96	-1.9	0.53
102	org72078_sc3g9_c	1.964	0.041	0.87	-6.3	0.34
103	org72079_sc3g9_c	1.864	0.040	0.86	-7.1	0.36
104	org72080_sc3g9_c	-1.358	0.038	1.04	1.8	0.47
105	org72081_sc3g9_c	-1.701	0.041	0.91	-4.1	0.55
106	org72082_sc3g9_c	-3.170	0.059	1.11	2.6	0.37

107	org72083_sc3g9_c	2.143	0.042	0.87	-5.8	0.32
108	org72084_sc3g9_c	-2.412	0.048	1.14	4.5	0.39
109	org72085_sc3g9_c	-3.316	0.062	1.08	1.9	0.39
110	org72086_sc3g9_c	-1.104	0.037	0.92	-4.7	0.54
111	org72087_sc3g9_c	-0.009	0.034	1.14	9.2	0.40
112	org72088_sc3g9_c	-2.767	0.052	1.04	1.1	0.45
113	org72089_sc3g9_c	-2.040	0.044	0.89	-4.5	0.57
114	org72090_sc3g9_c	-2.092	0.044	0.96	-1.7	0.52
115	org72091_sc3g9_c	-3.312	0.062	1.11	2.6	0.36
116	org72092_sc3g9_c	-2.934	0.055	1.00	-0.0	0.47
117	org92001_c	-4.386	0.089	0.88	-1.8	0.57
118	org92002_c	-3.792	0.072	0.87	-2.6	0.56
119	org92003_c	-4.006	0.078	0.90	-1.8	0.53
120	org92004_c	-4.012	0.078	0.87	-2.3	0.56
121	org92005_c	-3.808	0.073	0.86	-2.7	0.57
122	org92006_c	-2.483	0.048	1.04	1.3	0.46
123	org92007_c	-3.439	0.064	0.91	-2.0	0.53
124	org92008_c	-4.402	0.090	0.94	-0.8	0.51
125	org92009_c	-0.622	0.035	0.99	-0.7	0.48
126	org92010_c	-4.207	0.084	0.99	-0.2	0.46
127	org92011_c	-2.814	0.053	1.11	3.1	0.40
128	org92012_c	-3.657	0.069	0.91	-1.9	0.52
129	org92013_c	-2.385	0.047	0.83	-6.4	0.61
130	org92014_c	-2.437	0.048	1.06	2.0	0.45
131	org92015_c	-3.132	0.058	0.93	-1.9	0.52
132	org92016_c	-2.497	0.049	0.92	-2.6	0.54
133	org92017_c	-3.477	0.065	1.15	3.0	0.33
134	org92018_c	-4.493	0.093	0.96	-0.6	0.51
135	org92019_c	-2.650	0.051	0.88	-3.7	0.56
136	org92020_c	-4.484	0.092	0.90	-1.4	0.56
137	org92021_c	-4.309	0.087	0.90	-1.5	0.54
138	org92022_c	-4.264	0.085	0.88	-1.8	0.55
139	org92023_c	0.969	0.035	1.11	6.5	0.35
140	org92024_c	2.052	0.041	0.86	-6.4	0.32
141	org92025_c	-4.294	0.086	0.91	-1.3	0.53
142	org92026_c	-3.917	0.076	0.92	-1.4	0.51
143	org92027_c	-2.133	0.044	1.18	6.6	0.37
144	org92028_c	-4.502	0.093	0.92	-1.1	0.54
145	org92029_c	-1.761	0.041	1.17	7.2	0.39
146	org92030_c	-4.100	0.080	1.13	2.0	0.32
147	org92031_c	1.157	0.036	0.96	-2.6	0.40
148	org92032_c	-1.494	0.039	0.93	-3.6	0.53
149	org92033_c	-0.537	0.035	0.88	-8.1	0.53
150	org92034_c	-4.207	0.084	1.00	-0.0	0.43
151	org92035_c	-3.895	0.075	0.94	-1.0	0.49
152	org92036_c	-2.663	0.051	0.91	-2.8	0.55
153	org92037_c	-4.410	0.090	0.94	-0.8	0.51
154	org92038_c	-3.324	0.062	0.90	-2.4	0.55
155	org92039_c	-2.103	0.044	1.01	0.6	0.49
156	org92040_c	-2.293	0.046	0.88	-4.5	0.57
157	org92041_c	-4.362	0.088	0.91	-1.3	0.54
158	org92042_c	-4.068	0.080	0.93	-1.1	0.50
159	org92043_c	-4.055	0.079	0.94	-1.0	0.49
160	org92044_c	-1.562	0.040	0.95	-2.4	0.52
161	org92045_c	-4.324	0.087	0.92	-1.1	0.53
162	org92046_c	-0.954	0.036	1.16	8.9	0.39
163	org92047_c	-3.912	0.075	0.93	-1.2	0.51

164	org92048_c	-3.964	0.077	0.96	-0.7	0.48
165	org92049_c	-3.293	0.061	0.92	-1.8	0.53
166	org92050_c	-1.280	0.038	1.19	9.3	0.38
167	org92051_c	-3.787	0.072	0.92	-1.5	0.51
168	org92052_c	-3.062	0.057	1.17	4.1	0.32
169	org92053_c	-0.629	0.035	1.11	6.3	0.40
170	org92054_c	-0.326	0.034	1.02	1.0	0.41
171	org92055_c	-3.427	0.064	0.91	-2.0	0.53
172	org92056_c	-3.347	0.062	0.98	-0.5	0.48
173	org92057_c	-3.095	0.058	1.03	0.6	0.44
174	org92058_c	-4.159	0.082	0.93	-1.1	0.51
175	org92059_c	-2.740	0.052	1.08	2.2	0.42
176	org92060_c	-3.546	0.067	0.93	-1.5	0.50
177	org92061_c	0.077	0.034	0.98	-1.3	0.46
178	org92062_c	-3.958	0.077	0.92	-1.4	0.52
179	org92063_c	-3.681	0.070	0.86	-2.8	0.57
180	org92064_c	-2.098	0.044	1.13	4.9	0.41
181	org92065_c	-4.024	0.078	0.90	-1.7	0.53
182	org92066_c	-1.001	0.036	0.95	-2.6	0.52
183	org92067_c	-3.776	0.072	0.88	-2.4	0.55
184	org92068_c	-2.109	0.044	0.98	-0.6	0.51
185	org92069_c	-0.966	0.036	1.19	10.1	0.34
186	org92070_c	-4.152	0.082	1.15	2.2	0.30
187	org92071_c	-3.751	0.071	0.89	-2.1	0.54
188	org92072_c	-4.106	0.081	0.85	-2.5	0.59
189	org92073_c	-0.719	0.035	0.87	-8.2	0.55
190	org92074_c	-1.294	0.038	1.02	1.1	0.48
191	org92075_c	-4.418	0.090	0.92	-1.2	0.53
192	org92076_c	-2.860	0.054	0.93	-1.9	0.53
193	org92077_c	-4.324	0.087	0.90	-1.6	0.56
194	org92078_c	-0.401	0.034	0.91	-6.0	0.52
195	org92079_c	-4.294	0.086	0.96	-0.6	0.49
196	org92080_c	-0.032	0.034	0.97	-2.3	0.48
197	org92081_c	-3.797	0.072	0.92	-1.6	0.51
198	org92082_c	-4.119	0.081	0.91	-1.5	0.52
199	org92083_c	-4.236	0.084	0.90	-1.6	0.54
200	org92084_c	-1.334	0.038	1.11	5.4	0.43
201	org92085_c	-3.099	0.058	0.98	-0.5	0.50
202	org92086_c	-0.915	0.036	0.90	-6.1	0.54
203	org92087_c	-4.068	0.080	0.89	-1.8	0.54
204	org92088_c	-3.681	0.070	0.95	-1.0	0.49
205	org92089_c	-3.245	0.060	0.95	-1.2	0.50
206	org92090_c	-2.632	0.050	0.91	-3.0	0.54
207	org92091_c	-3.917	0.076	0.92	-1.4	0.51
208	org92092_c	-4.264	0.085	0.93	-1.0	0.51
209	org92093_c	-3.546	0.067	1.02	0.5	0.43
210	org92094_c	-3.473	0.065	0.91	-2.0	0.52
211	org92095_c	-4.214	0.084	0.91	-1.5	0.54
212	org92096_c	-1.560	0.040	1.10	4.4	0.42
213	org92097_c	-4.294	0.086	1.08	1.2	0.37
214	org92098_c	-3.824	0.073	1.16	2.9	0.31
215	org92099_c	-3.332	0.062	1.20	4.3	0.28
216	org92100_c	-3.309	0.062	1.14	3.1	0.34
217	org92101_c	-4.126	0.081	1.13	2.0	0.33
218	org92102_c	-3.363	0.063	0.93	-1.6	0.51
219	org92103_c	-3.964	0.077	0.91	-1.5	0.52
220	org92104_c	-4.173	0.083	0.93	-1.1	0.50

221	org92105_c	0.263	0.034	0.99	-0.5	0.45
222	org92106_c	-4.331	0.087	0.91	-1.3	0.53
223	org92107_c	-4.434	0.091	0.90	-1.5	0.56