



ISAT Comparability Investigations

Phase 1:

Accommodated Forms of the 2009 ISAT

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Executive Summary

Historical ISAT data indicate that the ELL students and those with disabilities who took special (S) forms or linguistically modified forms (L) tend to have lower performances than general student population taking the standard Form (1). If comparing p -value across forms, discrepancies could be caused by ability differences rather than item functioning. In order to avoid the confounding effect of ability and item functioning, differential item function analysis is used for this investigation based on the 2009 ISAT. These analyses took two forms. First, students' scores on new (i.e., current pilot) items were compared across Forms 1, L, and S. Some discrepancies were found on the same item between forms; however, there is no clear pattern across forms, grades, or subjects. This finding supports the assumption that neither of the forms is systematically different from the others, while simultaneously providing valuable information for the selection of test items for the 2010 test. Secondly, and most importantly, the impact of using Form 1 vs. Form L on the raw-to-scale-score transformations is minimal across areas and grades, especially near the "does not meet" vs. "meets" boundaries. Thus, the net effect of using linguistically modified forms on student accountability is essentially nil, thereby supporting the equivalence and meaningfulness of scores on the linguistically modified ISAT forms.

Form Equivalence Investigation through Differential Item Functioning

Background

The 2009 Illinois Standards Assessment Test (ISAT) administration is different from the 2008 in two ways: 1) a linguistically modified (L) form is added to the existing accommodations, and 2) a different cover page is used for accommodations of large print, reader script, and auditory via audiocassette or compact disk (CD) that were not formally distinguished in administration. All accommodations that used such a cover are called special form (S).

The L form and S form are adapted from form 1. During the adaption process, state and Pearson content experts reviewed individual items to ensure that necessary modification is implemented and item construct are not changed. This procedure leads to the assumption that items appearing on the three forms are equivalent, and thus, could be equated as one form.

The purpose of this investigation is to confirm that items of forms 1 and L form performed similarly. The S form is included in this study for reference purposes, but too few cases are available to perform all analyses. Historical data indicate that the ELL students and those who took L and S forms tended to have lower performances than general student population. If comparing p -value across forms, discrepancies could be caused by ability differences rather than item functioning. In order to avoid the confounding effect of ability and item functioning, differential item function analysis is used for this investigation.

Method

Differential item function (DIF) methods are applied to detect whether an item exhibits different statistical characteristics for different subgroups. DIF statistic removes ability impacts by controlling ability when comparing the probabilities of getting correct answer across subgroups. This investigation focuses on pilot items. Detailed procedure is described as follows:

- 1) In order to obtain item parameter estimates for each form, pilot items of the three forms are treated as different items. Census items are treated as common items among the three forms. Figure 1 presents the data structure for equating.

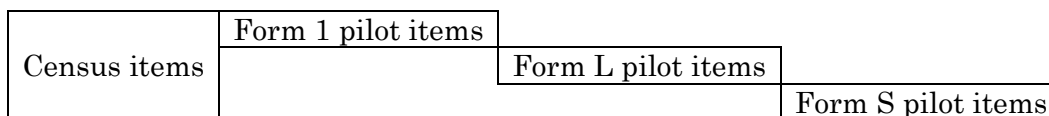


Figure 1: Data Structure

- 2) Use concurrent equating design to equate forms 1, L, and S.

- a) This step estimates the probabilities of answering an item correctly along the theta scale for forms 1, L, and S pilot items in one equating procedure.
 - b) Reading and mathematics is equated using the three-parameter logistic model.
 - c) Science is equated using the Rasch model.
- 3) Compute d^2 :
- a) The same items on forms 1, L, and S are paired and the probability differences of paired items are computed along theta scale. This study uses d^2 procedure: the difference of weighted sum of the squared deviation between the ICCs at each theta point. The equation is as follows:

$$d_i^2 = \sum_k [P_{ix}(\theta_k) - P_{iy}(\theta_k)]^2 \cdot g(\theta_k),$$

where $P_{ix}(\theta_k) - P_{iy}(\theta_k)$ is the difference of the probability of correctly answering the given item of the two forms. The $g(\theta_k)$ is the weight of theta distribution. The same 40 theta values and their weights used in the ISAT reading and mathematics d^2 procedure is used in this procedure.

- b) Flag items with large d^2 . In last year's ISAT equating, an empirical d^2 value of 0.01877 was found to define the threshold for "large". The same value is used to flag items for this study.

Note that reading has only forms 1 and S; thus, its DIF investigation only addressed forms 1 and S. The pilot short-response and extended-response items are not scored, and are thus excluded from this study. This results in five mathematics, five science, and 20 reading pilot items per grade. This analysis is replicated for quality control purpose.

Results

The number of DIF analysis that shows large d^2 values is summarized by subject and grade (see Table 1). Since DIF analysis is a paired-comparison procedure, having two forms with 20 items each for reading, and three forms with five items each for mathematics and science, the total number of DIF analysis for each reading grade is 20 and 15 for the other two subjects.

The number of flagged items in Table 1 maintains relatively stable for reading, except grade 7. Mathematics DIF flag count fluctuates and science has five flags in both grades. The results do not indicate patterns across grades or subjects. In other words, DIF is not caused by systematic effects that are associated with subject or grade. Noteworthy is the higher Grade 7 DIF counts across subjects, which suggests another item review might be necessary for this grade.

Further investigation of large d^2 values across forms, again, reveals no definite pattern across grades or subjects (see Table 2). When comparing across paired-comparisons, more DIF flags show on the L vs. S comparisons of mathematics grades 3, 4, 7, and 8, yet grades 5 and 6 have zero flags. While forms 1 vs. L comparisons have less flags comparing to other comparisons of different forms, grade 7 has the

largest counts among all comparisons. Science flags, on the other hand, distribute relatively even across form comparisons. Note that reading has only forms 1 and S comparisons and the results are given in Table 1; thus, it is not repeated in Table 2.

Table 1: Number of Items Exhibit large d^2 by Subject and Grade

| | Number of DIF Analysis per Grade | Grade | | | | | |
|-------------|----------------------------------|-------|---|----|----|---|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 |
| Reading | 20 | 3 | 2 | 3 | 3 | 7 | 4 |
| Mathematics | 15 | 4 | 3 | 1 | 1 | 5 | 3 |
| Science | 15 | -- | 5 | -- | -- | 5 | -- |

Note. Large d^2 refers to values > 0.01877 .

Table 2: Number of Items Exhibit large d^2 by Forms

| | Forms | Grade | | | | | |
|-------------|--------------|-------|---|----|----|---|----|
| | | 3 | 4 | 5 | 6 | 7 | 8 |
| Mathematics | Form 1 vs. L | 1 | 0 | 0 | 0 | 3 | 1 |
| | Form 1 vs. S | 1 | 1 | 1 | 1 | 0 | 0 |
| | L vs. S | 2 | 2 | 0 | 0 | 2 | 2 |
| Science | Form 1 vs. L | -- | 1 | -- | -- | 2 | -- |
| | Form 1 vs. S | -- | 2 | -- | -- | 2 | -- |
| | L vs. S | -- | 2 | -- | -- | 1 | -- |

DIF analysis is accomplished at item level. However, the impact of individual item on the whole test sometimes is negligible, especially when the test is long. In order to evaluate the impact of individual items on a group of items, the cumulated characteristic curves, rather than item characteristic curves, are presented. Since reading items are passage-based, the characteristic curves are cumulated at passage level. Reading has two passage curves per grade and each passage curve is a composite of ten items (see Figures 2 through 13). Mathematics and science are reported at the form level, with one curve for each grade (see Figures 14 through 21).

Reading passage curves have forms 1 and S. Most of the passages have overlapping curves at some theta range. In some instances, the two lines follow each other closely along long theta range then depart at the high ability range. There is no clear pattern of which form is easier across passages. Mathematics and science have three curves per chart: forms 1, L, and S. The mathematics and science curves are closer than reading in general. Again, there is no clear pattern of which form is easier or harder than the others.

In summary, this study shows that some larger discrepancies are found on the same item between forms; however, there is no clear pattern across forms, grades, or subjects. The large discrepancies appear on all possible form comparisons (i.e., Form 1 vs. L, Form 1 vs. S, and L vs. S) rather than specific paired forms. This finding reveals that neither of the forms is systematically different from the others. The DIF is a random item-by-item situation.

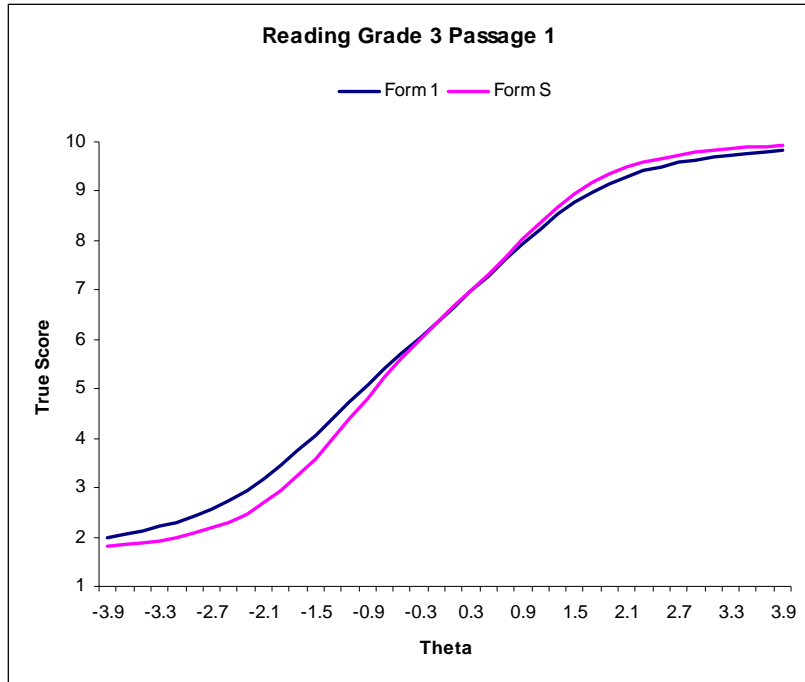


Figure 2: Reading Grade 3 Passage 1 Curve

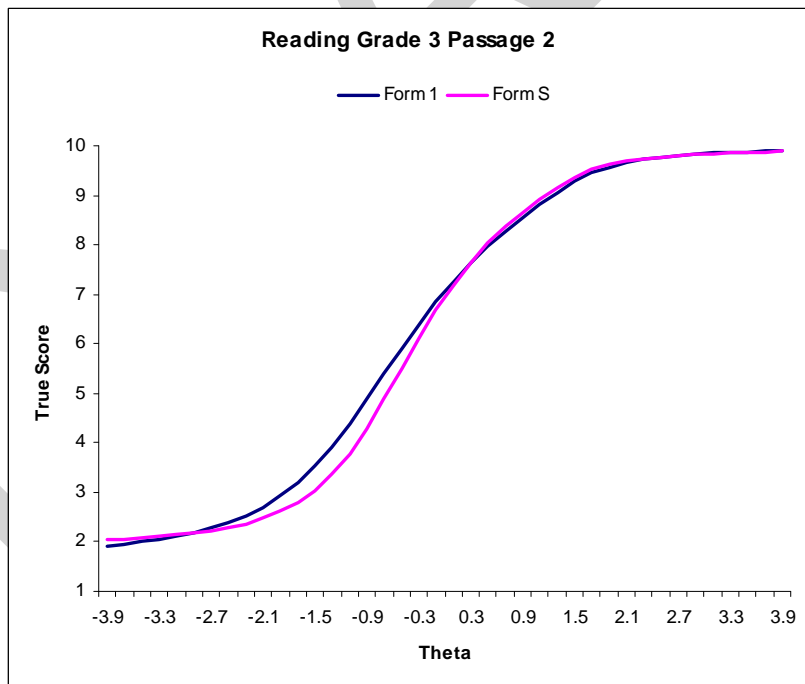


Figure 3: Reading Grade 3 Passage 2 Curve

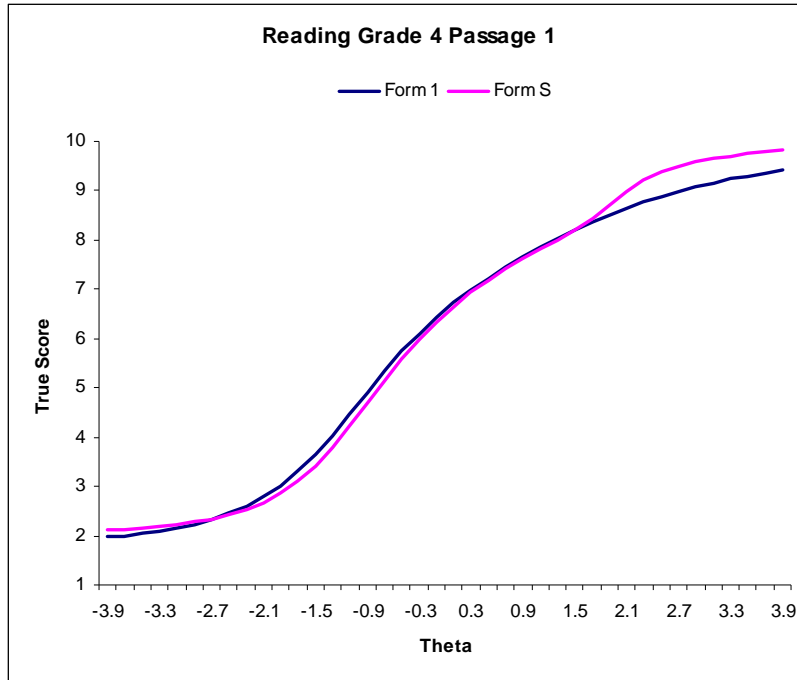


Figure 4: Reading Grade 4 Passage 1 Curve

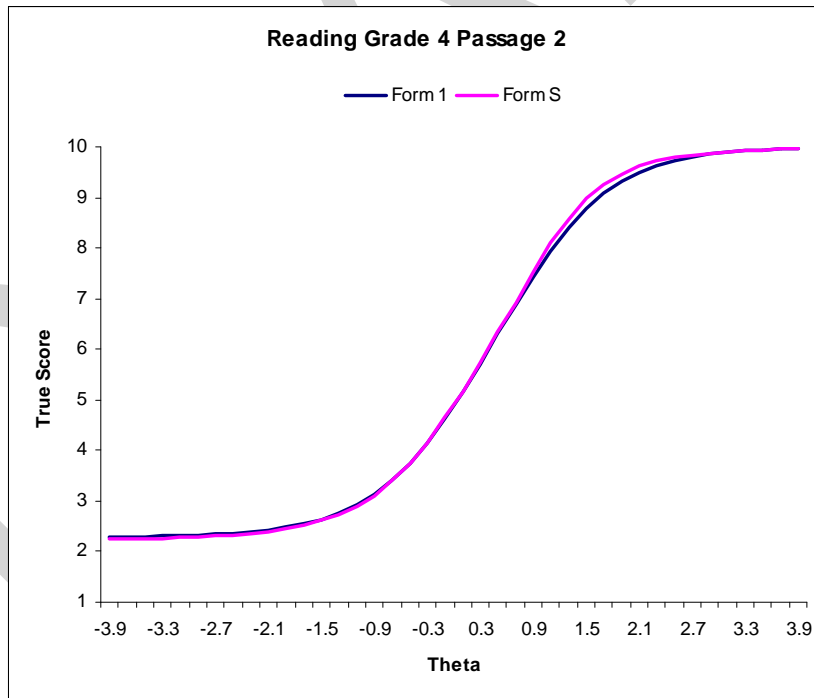


Figure 5: Reading Grade 4 Passage 2 Curve

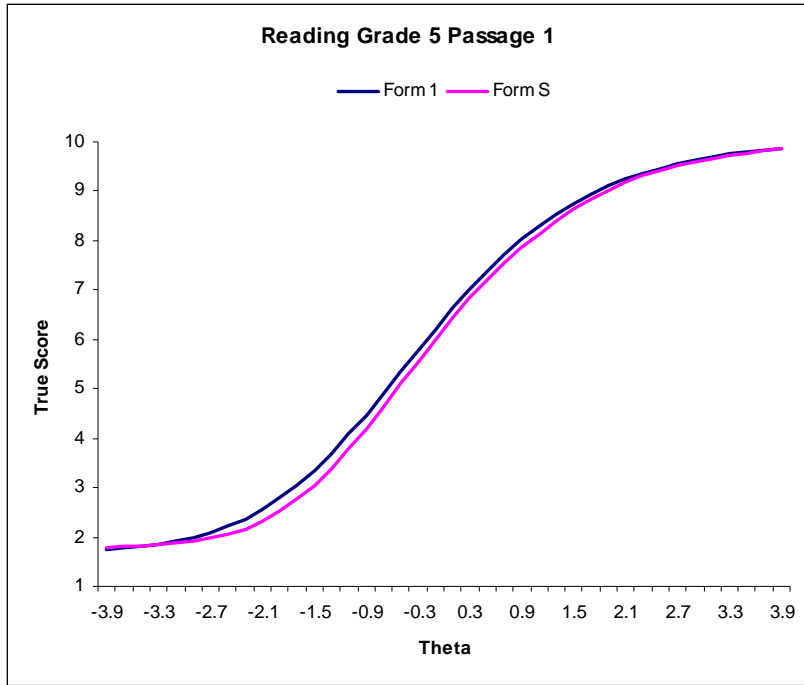


Figure 6: Reading Grade 5 Passage 1 Curve

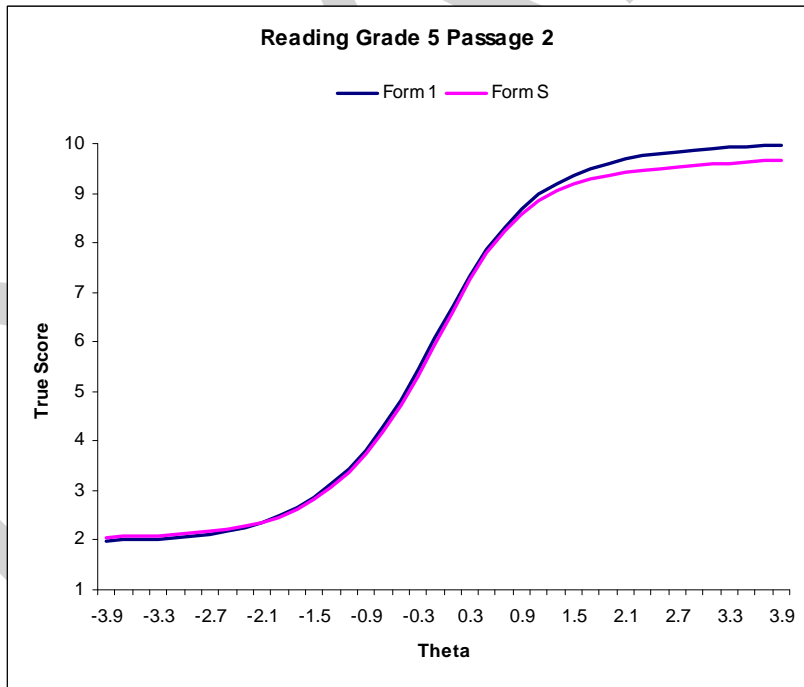


Figure 7: Reading Grade 5 Passage 2 Curve

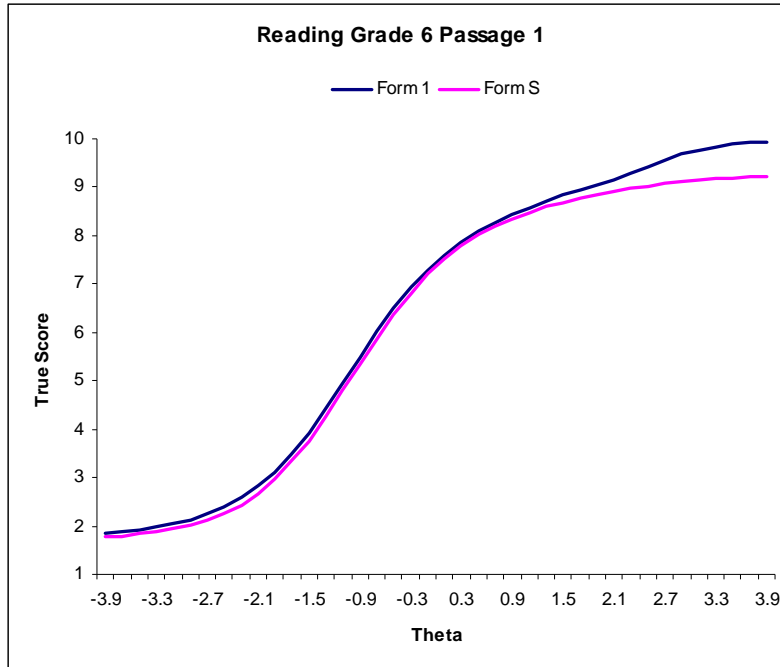


Figure 8: Reading Grade 6 Passage 1 Curve

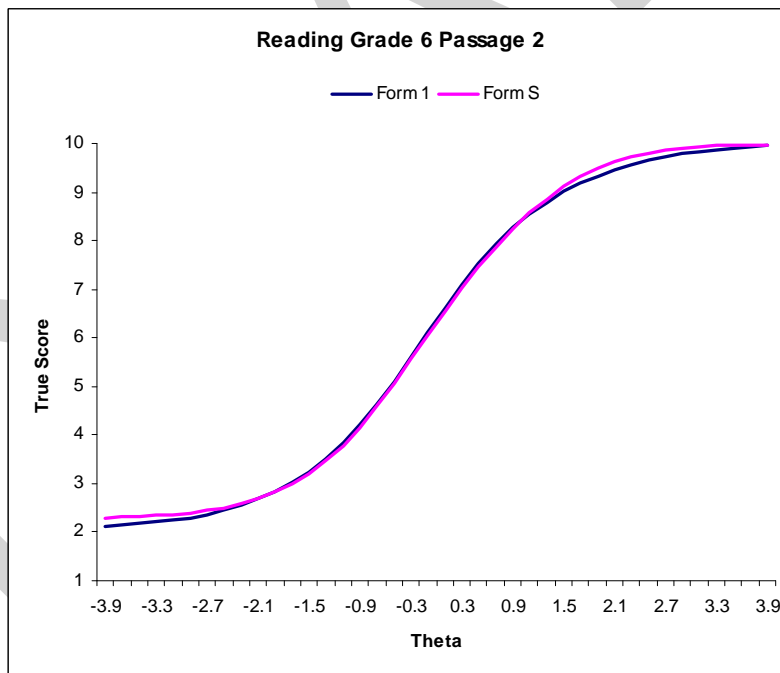


Figure 9: Reading Grade 6 Passage 2 Curve

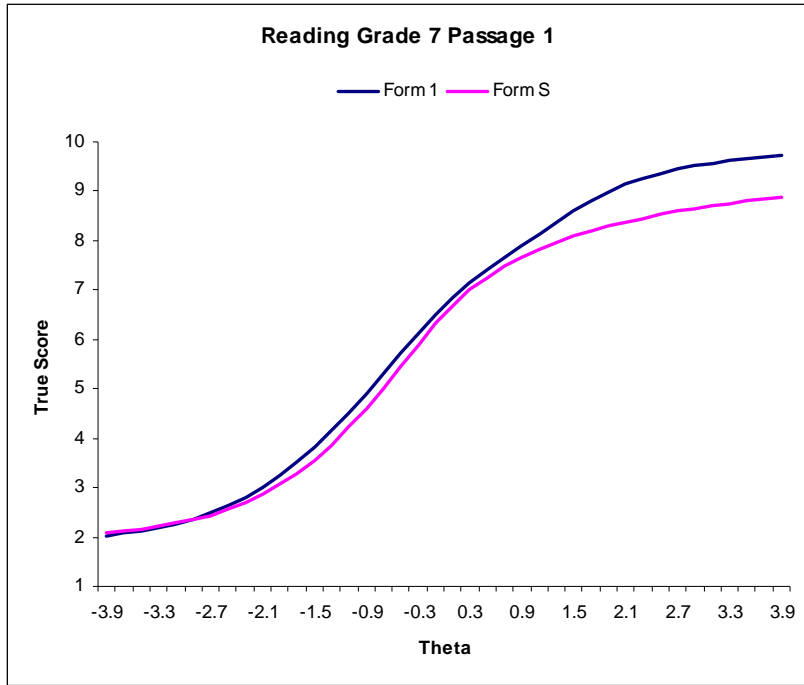


Figure10: Reading Grade 7 Passage 1 Curve

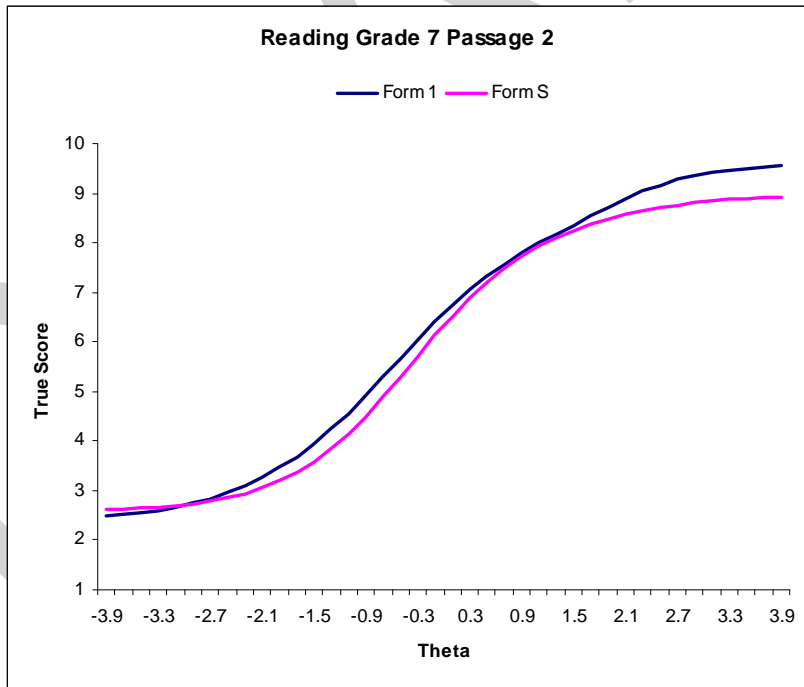


Figure 11: Reading Grade 7 Passage 2 Curve

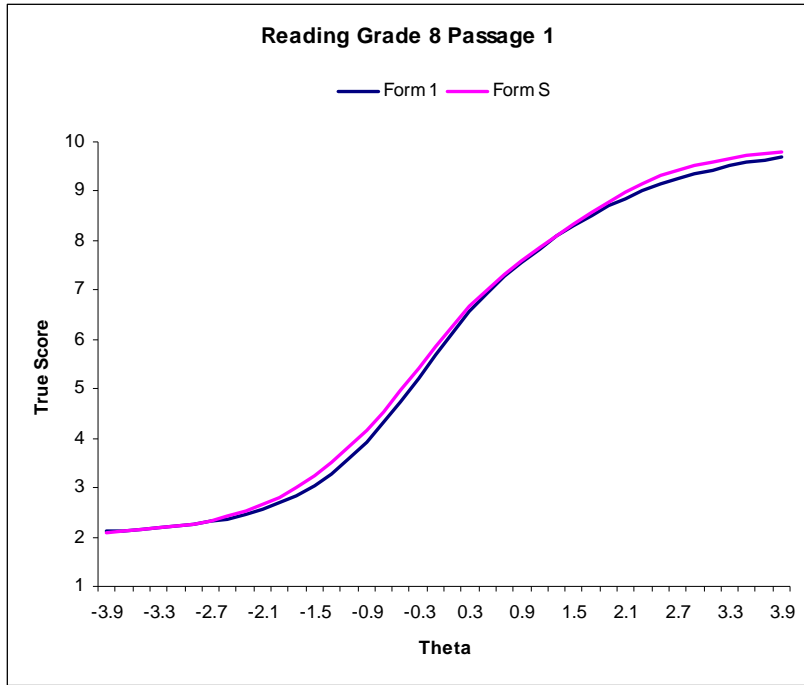


Figure 12: Reading Grade 8 Passage 1 Curve

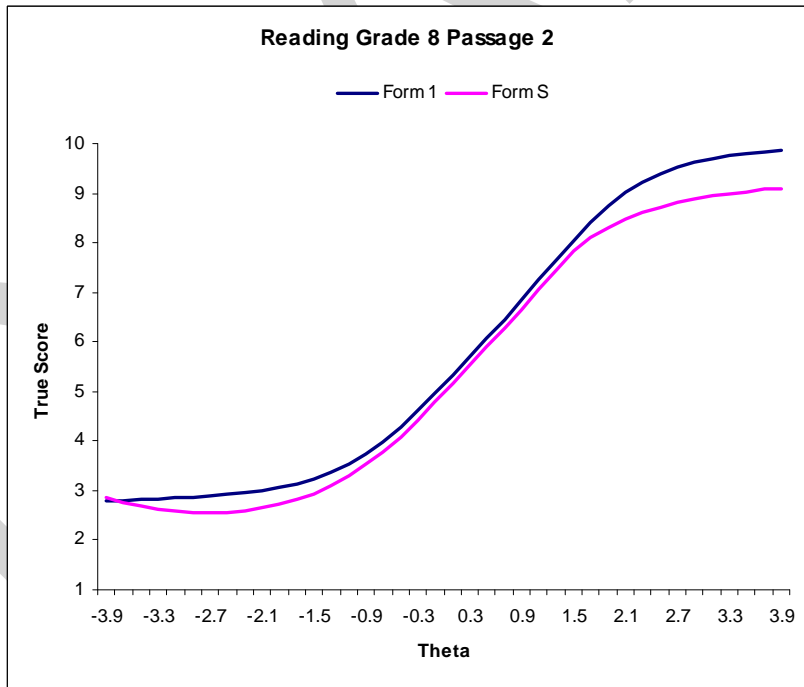


Figure 13: Reading Grade 8 Passage 2 Curve

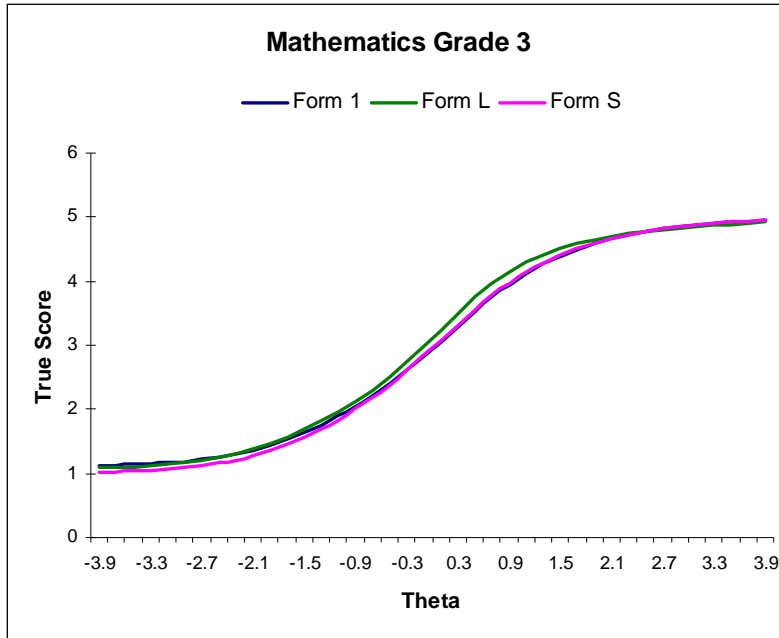


Figure 14: Mathematics Grade 3 Form Curve

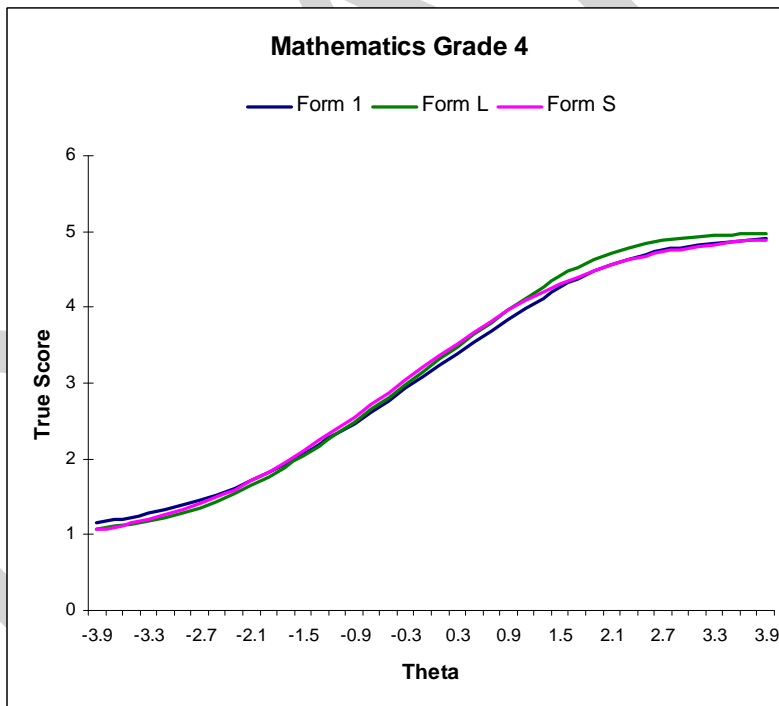


Figure 15: Mathematics Grade 4 Form Curve

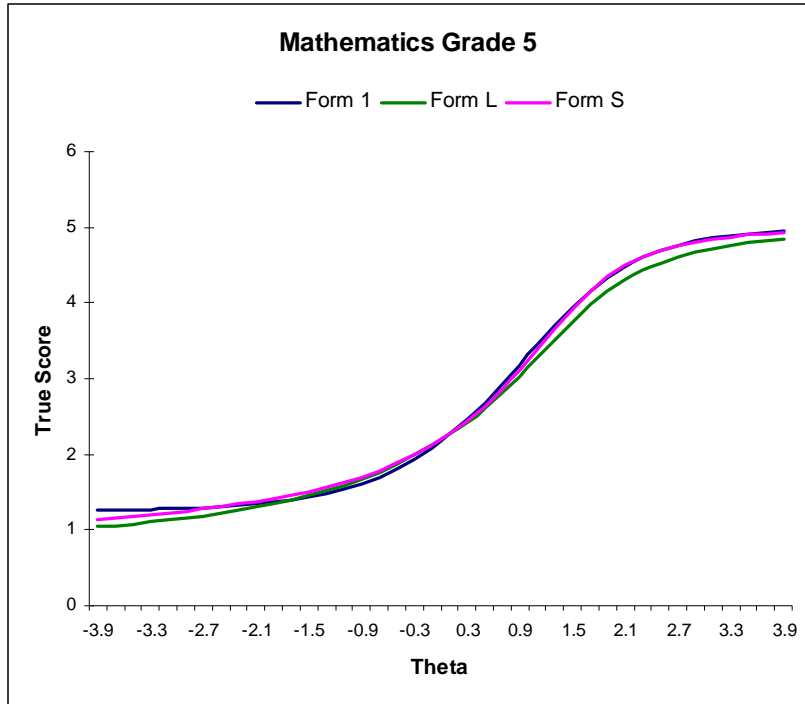


Figure 16: Mathematics Grade 5 Form Curve

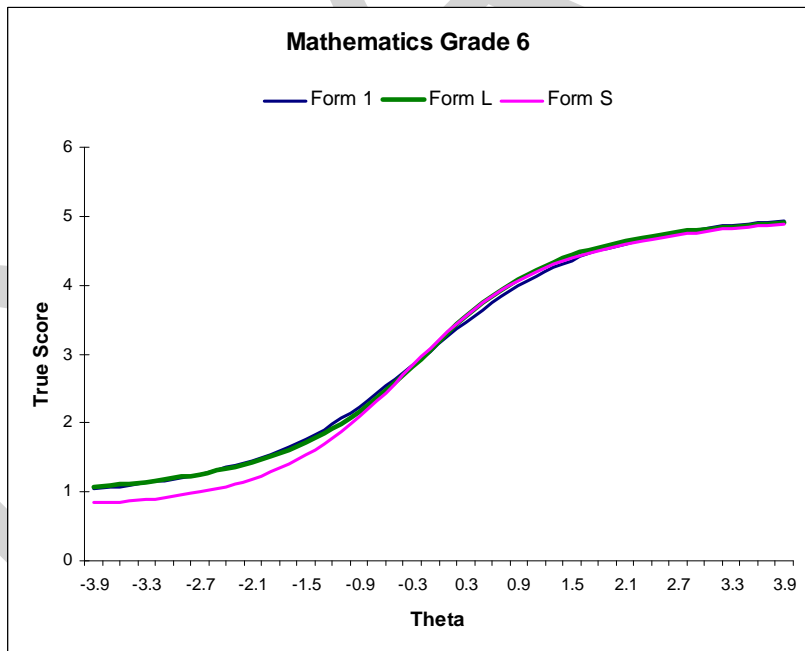


Figure 17: Mathematics Grade 6 Form Curve

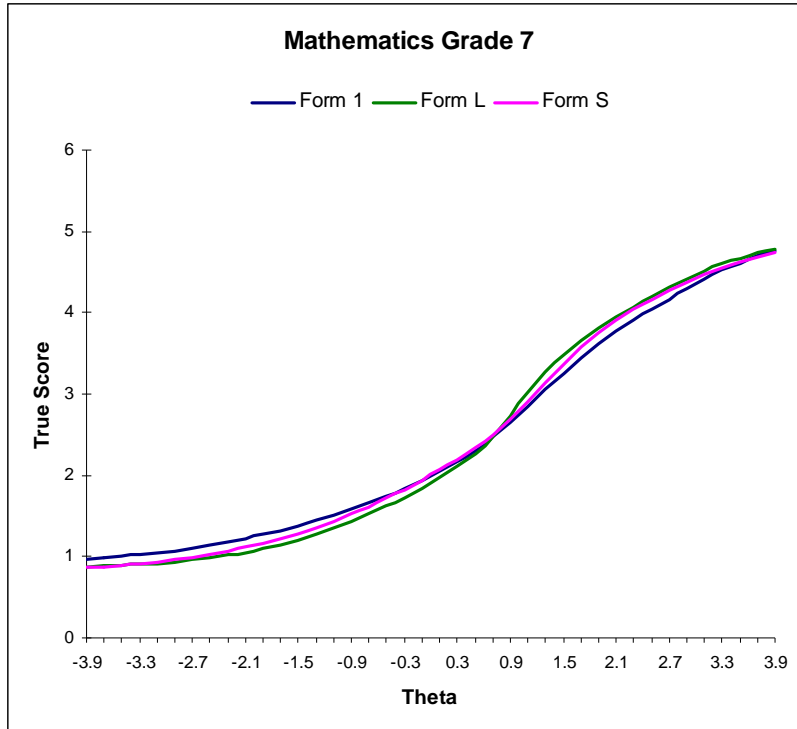


Figure 18: Mathematics Grade 7 Form Curve

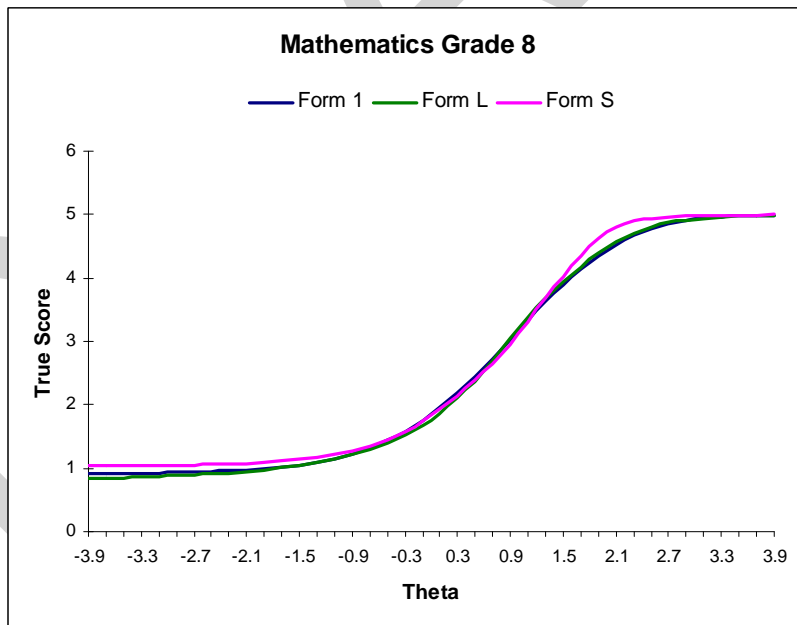


Figure 19: Mathematics Grade 8 Form Curve

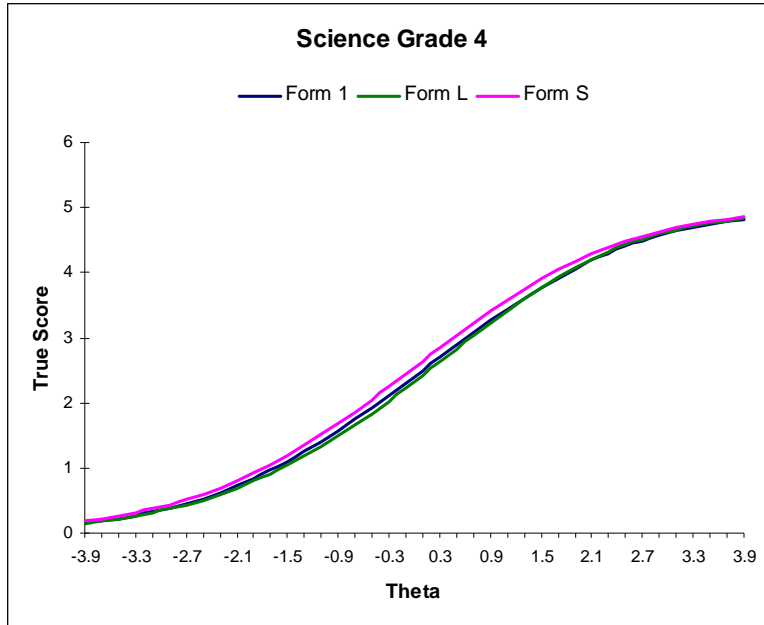


Figure 20: Science Grade 4 Form Curve

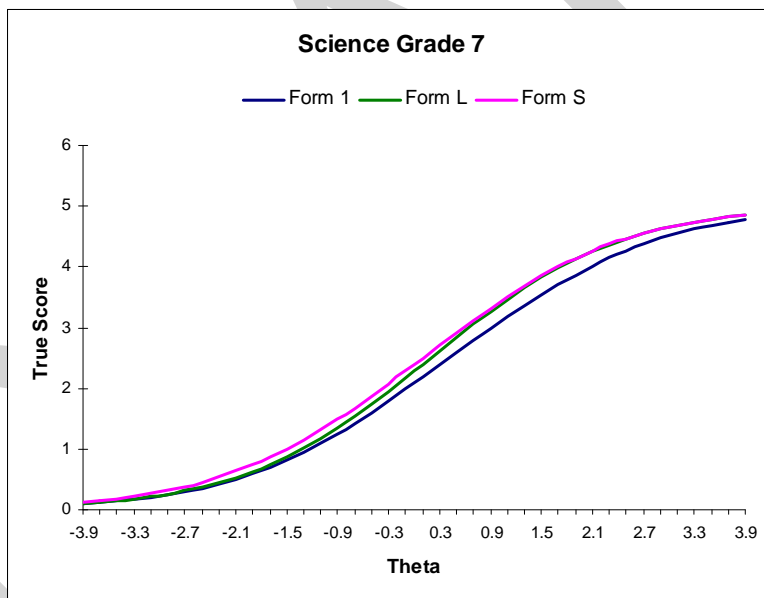


Figure 21: Science Grade 7 Form Curve

Form Equivalence Investigation through Raw Score-to-Scale Score Tables

In 2007, the ISAT population did not include ELL students because the ELL students took the IMAGE test. However, the IMAGE test was cancelled in 2008 and the ELL students took the regular ISAT mathematics and science instead. In 2009, the linguistically modified forms were developed in mathematics and science areas for the ELL students. Due to the assumption that items appearing on the linguistically modified forms and ISAT form 1 are equivalent, the 2009 ISAT raw score-to scale score conversion tables were generated including the linguistically modified test takers.

An equating was conducted using only linguistically modified records to investigate its equivalence of Form 1 and Form L with the 2009 ISAT scale scores. The results are presented in the following tables. Along with the 2009 ISAT scale scores and linguistically modified scale scores are 2007 and 2008 scale scores. The trend would provide a better picture of the ISAT scale scores. Scale scores that are highlighted in yellow or blue are the performance cut scores. The results show that linguistically modified scale scores are close to the 2009 ISAT, especially at the cuts of below-meet and meet-exceed.

Please note that the Form S could not be studied in this way due to the rather small number of students taking this form.

Grade 3 Mathematics

| Subject | Grade | Raw Score | 2007 | 2008 | 2009 | LM |
|---------|-------|-----------|------|------|------|-----|
| M | 03 | 0 | 120 | 120 | 120 | 120 |
| M | 03 | 1 | 120 | 120 | 120 | 120 |
| M | 03 | 2 | 120 | 120 | 120 | 120 |
| M | 03 | 3 | 120 | 120 | 120 | 120 |
| M | 03 | 4 | 120 | 120 | 120 | 120 |
| M | 03 | 5 | 120 | 120 | 120 | 120 |
| M | 03 | 6 | 120 | 120 | 120 | 120 |
| M | 03 | 7 | 120 | 120 | 120 | 120 |
| M | 03 | 8 | 120 | 120 | 120 | 120 |
| M | 03 | 9 | 120 | 124 | 123 | 120 |
| M | 03 | 10 | 124 | 128 | 127 | 124 |
| M | 03 | 11 | 128 | 133 | 131 | 127 |
| M | 03 | 12 | 131 | 137 | 135 | 131 |
| M | 03 | 13 | 134 | 140 | 139 | 136 |
| M | 03 | 14 | 137 | 142 | 142 | 140 |
| M | 03 | 15 | 139 | 145 | 145 | 143 |
| M | 03 | 16 | 142 | 147 | 148 | 146 |
| M | 03 | 17 | 144 | 150 | 150 | 149 |
| M | 03 | 18 | 146 | 152 | 153 | 152 |
| M | 03 | 19 | 149 | 154 | 155 | 154 |
| M | 03 | 20 | 151 | 156 | 158 | 157 |
| M | 03 | 21 | 153 | 159 | 160 | 159 |
| M | 03 | 22 | 155 | 161 | 163 | 161 |
| M | 03 | 23 | 157 | 163 | 164 | 163 |
| M | 03 | 24 | 159 | 164 | 166 | 165 |
| M | 03 | 25 | 161 | 166 | 168 | 167 |
| M | 03 | 26 | 163 | 168 | 170 | 170 |
| M | 03 | 27 | 164 | 170 | 172 | 171 |
| M | 03 | 28 | 166 | 172 | 174 | 173 |
| M | 03 | 29 | 168 | 173 | 176 | 175 |
| M | 03 | 30 | 170 | 175 | 177 | 177 |
| M | 03 | 31 | 171 | 177 | 179 | 179 |
| M | 03 | 32 | 173 | 179 | 181 | 180 |
| M | 03 | 33 | 175 | 180 | 182 | 182 |
| M | 03 | 34 | 177 | 182 | 184 | 184 |
| M | 03 | 35 | 178 | 184 | 186 | 185 |
| M | 03 | 36 | 180 | 185 | 187 | 187 |
| M | 03 | 37 | 181 | 187 | 189 | 189 |
| M | 03 | 38 | 184 | 189 | 190 | 190 |
| M | 03 | 39 | 185 | 190 | 192 | 192 |
| M | 03 | 40 | 186 | 192 | 194 | 193 |
| M | 03 | 41 | 188 | 193 | 195 | 195 |
| M | 03 | 42 | 189 | 195 | 197 | 196 |
| M | 03 | 43 | 191 | 197 | 198 | 198 |
| M | 03 | 44 | 193 | 198 | 200 | 199 |
| M | 03 | 45 | 194 | 200 | 201 | 201 |
| M | 03 | 46 | 196 | 202 | 203 | 203 |

| | | | | | | |
|---|----|----|-----|-----|-----|-----|
| M | 03 | 47 | 198 | 203 | 204 | 204 |
| M | 03 | 48 | 199 | 205 | 206 | 206 |
| M | 03 | 49 | 201 | 207 | 208 | 207 |
| M | 03 | 50 | 203 | 208 | 209 | 209 |
| M | 03 | 51 | 204 | 210 | 211 | 210 |
| M | 03 | 52 | 206 | 212 | 213 | 212 |
| M | 03 | 53 | 208 | 214 | 214 | 214 |
| M | 03 | 54 | 210 | 216 | 216 | 215 |
| M | 03 | 55 | 212 | 218 | 218 | 217 |
| M | 03 | 56 | 214 | 219 | 220 | 219 |
| M | 03 | 57 | 216 | 221 | 221 | 220 |
| M | 03 | 58 | 218 | 224 | 224 | 222 |
| M | 03 | 59 | 220 | 225 | 225 | 224 |
| M | 03 | 60 | 222 | 228 | 227 | 226 |
| M | 03 | 61 | 224 | 230 | 230 | 228 |
| M | 03 | 62 | 227 | 232 | 232 | 230 |
| M | 03 | 63 | 230 | 235 | 234 | 232 |
| M | 03 | 64 | 233 | 237 | 237 | 235 |
| M | 03 | 65 | 236 | 240 | 239 | 237 |
| M | 03 | 66 | 239 | 243 | 242 | 240 |
| M | 03 | 67 | 242 | 246 | 245 | 243 |
| M | 03 | 68 | 246 | 249 | 248 | 246 |
| M | 03 | 69 | 250 | 253 | 252 | 249 |
| M | 03 | 70 | 255 | 257 | 256 | 253 |
| M | 03 | 71 | 260 | 262 | 261 | 258 |
| M | 03 | 72 | 267 | 268 | 267 | 263 |
| M | 03 | 73 | 274 | 275 | 274 | 270 |
| M | 03 | 74 | 285 | 285 | 283 | 279 |
| M | 03 | 75 | 300 | 299 | 297 | 293 |
| M | 03 | 76 | 341 | 341 | 341 | 341 |

Grade 4 Mathematics

| Subject | Grade | Raw Score | 2007 | 2008 | 2009 | LM |
|---------|-------|-----------|------|------|------|-----|
| M | 04 | 0 | 120 | 120 | 120 | 120 |
| M | 04 | 1 | 120 | 120 | 120 | 120 |
| M | 04 | 2 | 120 | 120 | 120 | 120 |
| M | 04 | 3 | 120 | 120 | 120 | 120 |
| M | 04 | 4 | 120 | 123 | 120 | 120 |
| M | 04 | 5 | 124 | 130 | 127 | 123 |
| M | 04 | 6 | 130 | 135 | 132 | 129 |
| M | 04 | 7 | 134 | 140 | 137 | 133 |
| M | 04 | 8 | 139 | 144 | 141 | 137 |
| M | 04 | 9 | 142 | 148 | 145 | 141 |
| M | 04 | 10 | 146 | 151 | 149 | 145 |
| M | 04 | 11 | 149 | 154 | 152 | 148 |
| M | 04 | 12 | 152 | 156 | 155 | 150 |
| M | 04 | 13 | 155 | 159 | 157 | 153 |
| M | 04 | 14 | 157 | 162 | 160 | 156 |
| M | 04 | 15 | 160 | 164 | 163 | 158 |
| M | 04 | 16 | 162 | 167 | 166 | 161 |
| M | 04 | 17 | 164 | 169 | 169 | 165 |
| M | 04 | 18 | 166 | 172 | 172 | 168 |
| M | 04 | 19 | 168 | 174 | 174 | 170 |
| M | 04 | 20 | 170 | 176 | 176 | 172 |
| M | 04 | 21 | 172 | 177 | 178 | 176 |
| M | 04 | 22 | 174 | 179 | 180 | 178 |
| M | 04 | 23 | 176 | 181 | 182 | 180 |
| M | 04 | 24 | 178 | 183 | 184 | 182 |
| M | 04 | 25 | 179 | 185 | 186 | 184 |
| M | 04 | 26 | 181 | 187 | 188 | 186 |
| M | 04 | 27 | 183 | 189 | 189 | 188 |
| M | 04 | 28 | 184 | 190 | 191 | 190 |
| M | 04 | 29 | 186 | 192 | 193 | 192 |
| M | 04 | 30 | 188 | 194 | 194 | 194 |
| M | 04 | 31 | 189 | 195 | 196 | 196 |
| M | 04 | 32 | 191 | 197 | 197 | 197 |
| M | 04 | 33 | 193 | 198 | 200 | 199 |
| M | 04 | 34 | 194 | 200 | 201 | 200 |
| M | 04 | 35 | 196 | 202 | 202 | 202 |
| M | 04 | 36 | 197 | 203 | 204 | 203 |
| M | 04 | 37 | 199 | 205 | 205 | 205 |
| M | 04 | 38 | 200 | 206 | 207 | 206 |
| M | 04 | 39 | 202 | 208 | 208 | 208 |
| M | 04 | 40 | 204 | 209 | 210 | 209 |
| M | 04 | 41 | 205 | 211 | 211 | 211 |
| M | 04 | 42 | 206 | 213 | 213 | 212 |
| M | 04 | 43 | 208 | 214 | 214 | 214 |
| M | 04 | 44 | 210 | 216 | 216 | 215 |
| M | 04 | 45 | 211 | 218 | 218 | 217 |
| M | 04 | 46 | 213 | 219 | 219 | 219 |
| M | 04 | 47 | 214 | 221 | 221 | 220 |

| | | | | | | |
|---|----|----|-----|-----|-----|-----|
| M | 04 | 48 | 216 | 223 | 222 | 222 |
| M | 04 | 49 | 218 | 225 | 224 | 223 |
| M | 04 | 50 | 219 | 226 | 226 | 225 |
| M | 04 | 51 | 221 | 228 | 228 | 227 |
| M | 04 | 52 | 223 | 230 | 229 | 229 |
| M | 04 | 53 | 225 | 232 | 231 | 230 |
| M | 04 | 54 | 227 | 234 | 233 | 232 |
| M | 04 | 55 | 228 | 236 | 235 | 234 |
| M | 04 | 56 | 230 | 238 | 237 | 236 |
| M | 04 | 57 | 232 | 240 | 239 | 238 |
| M | 04 | 58 | 234 | 243 | 241 | 240 |
| M | 04 | 59 | 237 | 245 | 244 | 243 |
| M | 04 | 60 | 239 | 247 | 247 | 245 |
| M | 04 | 61 | 241 | 250 | 248 | 247 |
| M | 04 | 62 | 244 | 252 | 251 | 249 |
| M | 04 | 63 | 247 | 255 | 254 | 252 |
| M | 04 | 64 | 249 | 258 | 257 | 255 |
| M | 04 | 65 | 252 | 261 | 260 | 257 |
| M | 04 | 66 | 255 | 264 | 263 | 260 |
| M | 04 | 67 | 258 | 267 | 266 | 263 |
| M | 04 | 68 | 262 | 271 | 270 | 267 |
| M | 04 | 69 | 266 | 275 | 274 | 271 |
| M | 04 | 70 | 270 | 280 | 279 | 275 |
| M | 04 | 71 | 276 | 285 | 284 | 281 |
| M | 04 | 72 | 282 | 291 | 291 | 288 |
| M | 04 | 73 | 289 | 299 | 300 | 297 |
| M | 04 | 74 | 299 | 309 | 316 | 313 |
| M | 04 | 75 | 314 | 331 | 355 | 355 |
| M | 04 | 76 | 355 | 355 | | |

Grade 5 Mathematics

| Subject | Grade | Raw Score | 2007 | 2008 | 2009 | LM |
|---------|-------|-----------|------|------|------|-----|
| M | 05 | 0 | 120 | 120 | 120 | 120 |
| M | 05 | 1 | 120 | 120 | 120 | 120 |
| M | 05 | 2 | 120 | 120 | 120 | 120 |
| M | 05 | 3 | 126 | 127 | 128 | 123 |
| M | 05 | 4 | 134 | 135 | 137 | 132 |
| M | 05 | 5 | 141 | 142 | 143 | 138 |
| M | 05 | 6 | 146 | 147 | 149 | 144 |
| M | 05 | 7 | 151 | 152 | 154 | 149 |
| M | 05 | 8 | 155 | 156 | 158 | 153 |
| M | 05 | 9 | 159 | 160 | 162 | 156 |
| M | 05 | 10 | 162 | 163 | 165 | 160 |
| M | 05 | 11 | 165 | 167 | 168 | 163 |
| M | 05 | 12 | 168 | 170 | 171 | 166 |
| M | 05 | 13 | 171 | 173 | 174 | 168 |
| M | 05 | 14 | 174 | 176 | 176 | 171 |
| M | 05 | 15 | 176 | 179 | 180 | 173 |
| M | 05 | 16 | 178 | 180 | 181 | 175 |
| M | 05 | 17 | 180 | 184 | 183 | 178 |
| M | 05 | 18 | 183 | 186 | 186 | 180 |
| M | 05 | 19 | 185 | 188 | 187 | 183 |
| M | 05 | 20 | 187 | 190 | 190 | 185 |
| M | 05 | 21 | 189 | 192 | 192 | 188 |
| M | 05 | 22 | 191 | 193 | 193 | 190 |
| M | 05 | 23 | 193 | 195 | 195 | 193 |
| M | 05 | 24 | 194 | 197 | 197 | 195 |
| M | 05 | 25 | 196 | 198 | 199 | 197 |
| M | 05 | 26 | 198 | 200 | 201 | 199 |
| M | 05 | 27 | 200 | 202 | 203 | 201 |
| M | 05 | 28 | 201 | 203 | 204 | 204 |
| M | 05 | 29 | 203 | 205 | 206 | 206 |
| M | 05 | 30 | 204 | 206 | 208 | 208 |
| M | 05 | 31 | 206 | 208 | 210 | 210 |
| M | 05 | 32 | 207 | 209 | 212 | 212 |
| M | 05 | 33 | 209 | 211 | 214 | 214 |
| M | 05 | 34 | 211 | 212 | 215 | 215 |
| M | 05 | 35 | 212 | 214 | 217 | 217 |
| M | 05 | 36 | 214 | 215 | 218 | 219 |
| M | 05 | 37 | 215 | 217 | 220 | 221 |
| M | 05 | 38 | 217 | 218 | 222 | 223 |
| M | 05 | 39 | 218 | 220 | 224 | 225 |
| M | 05 | 40 | 220 | 221 | 225 | 226 |
| M | 05 | 41 | 222 | 223 | 227 | 228 |
| M | 05 | 42 | 223 | 224 | 229 | 230 |
| M | 05 | 43 | 225 | 226 | 230 | 231 |
| M | 05 | 44 | 226 | 227 | 232 | 233 |
| M | 05 | 45 | 228 | 229 | 234 | 235 |
| M | 05 | 46 | 229 | 230 | 236 | 237 |
| M | 05 | 47 | 231 | 232 | 238 | 238 |

| | | | | | | |
|---|----|----|-----|-----|-----|-----|
| M | 05 | 48 | 233 | 234 | 240 | 240 |
| M | 05 | 49 | 234 | 235 | 241 | 242 |
| M | 05 | 50 | 236 | 237 | 243 | 244 |
| M | 05 | 51 | 237 | 239 | 245 | 245 |
| M | 05 | 52 | 239 | 241 | 247 | 247 |
| M | 05 | 53 | 241 | 243 | 249 | 249 |
| M | 05 | 54 | 243 | 244 | 251 | 251 |
| M | 05 | 55 | 245 | 246 | 253 | 253 |
| M | 05 | 56 | 246 | 249 | 255 | 255 |
| M | 05 | 57 | 249 | 250 | 257 | 257 |
| M | 05 | 58 | 250 | 253 | 259 | 259 |
| M | 05 | 59 | 252 | 255 | 262 | 261 |
| M | 05 | 60 | 255 | 257 | 264 | 263 |
| M | 05 | 61 | 257 | 259 | 267 | 266 |
| M | 05 | 62 | 259 | 262 | 269 | 268 |
| M | 05 | 63 | 262 | 265 | 271 | 271 |
| M | 05 | 64 | 264 | 267 | 274 | 273 |
| M | 05 | 65 | 267 | 271 | 277 | 276 |
| M | 05 | 66 | 271 | 273 | 281 | 279 |
| M | 05 | 67 | 273 | 276 | 284 | 282 |
| M | 05 | 68 | 277 | 280 | 288 | 286 |
| M | 05 | 69 | 281 | 284 | 292 | 291 |
| M | 05 | 70 | 285 | 288 | 297 | 296 |
| M | 05 | 71 | 290 | 293 | 302 | 302 |
| M | 05 | 72 | 296 | 298 | 310 | 311 |
| M | 05 | 73 | 303 | 305 | 319 | 322 |
| M | 05 | 74 | 313 | 315 | 337 | 345 |
| M | 05 | 75 | 328 | 329 | 369 | 369 |
| M | 05 | 76 | 369 | 369 | | |

Grade 6 Mathematics

| Subject | Grade | Raw Score | 2007 | 2008 | 2009 | LM |
|---------|-------|-----------|------|------|------|-----|
| M | 06 | 0 | 120 | 120 | 120 | 120 |
| M | 06 | 1 | 120 | 120 | 120 | 120 |
| M | 06 | 2 | 130 | 133 | 130 | 127 |
| M | 06 | 3 | 141 | 144 | 142 | 139 |
| M | 06 | 4 | 149 | 153 | 150 | 147 |
| M | 06 | 5 | 156 | 159 | 157 | 154 |
| M | 06 | 6 | 161 | 165 | 162 | 160 |
| M | 06 | 7 | 166 | 169 | 167 | 164 |
| M | 06 | 8 | 170 | 174 | 171 | 168 |
| M | 06 | 9 | 174 | 177 | 175 | 172 |
| M | 06 | 10 | 177 | 181 | 178 | 175 |
| M | 06 | 11 | 180 | 184 | 182 | 179 |
| M | 06 | 12 | 183 | 186 | 184 | 181 |
| M | 06 | 13 | 186 | 188 | 187 | 184 |
| M | 06 | 14 | 188 | 190 | 189 | 186 |
| M | 06 | 15 | 191 | 193 | 191 | 188 |
| M | 06 | 16 | 194 | 194 | 193 | 189 |
| M | 06 | 17 | 195 | 197 | 194 | 191 |
| M | 06 | 18 | 197 | 199 | 196 | 194 |
| M | 06 | 19 | 199 | 201 | 198 | 195 |
| M | 06 | 20 | 201 | 203 | 200 | 197 |
| M | 06 | 21 | 203 | 204 | 202 | 199 |
| M | 06 | 22 | 205 | 206 | 204 | 201 |
| M | 06 | 23 | 206 | 208 | 206 | 204 |
| M | 06 | 24 | 208 | 209 | 207 | 206 |
| M | 06 | 25 | 210 | 211 | 209 | 208 |
| M | 06 | 26 | 212 | 213 | 211 | 209 |
| M | 06 | 27 | 213 | 214 | 213 | 211 |
| M | 06 | 28 | 215 | 216 | 214 | 213 |
| M | 06 | 29 | 217 | 217 | 216 | 215 |
| M | 06 | 30 | 218 | 219 | 218 | 217 |
| M | 06 | 31 | 219 | 220 | 219 | 219 |
| M | 06 | 32 | 221 | 222 | 221 | 220 |
| M | 06 | 33 | 223 | 223 | 222 | 222 |
| M | 06 | 34 | 225 | 225 | 224 | 225 |
| M | 06 | 35 | 226 | 226 | 225 | 226 |
| M | 06 | 36 | 227 | 227 | 227 | 227 |
| M | 06 | 37 | 228 | 229 | 229 | 229 |
| M | 06 | 38 | 230 | 230 | 230 | 230 |
| M | 06 | 39 | 231 | 232 | 232 | 232 |
| M | 06 | 40 | 233 | 233 | 233 | 234 |
| M | 06 | 41 | 234 | 234 | 235 | 235 |
| M | 06 | 42 | 236 | 236 | 236 | 237 |
| M | 06 | 43 | 237 | 237 | 238 | 239 |
| M | 06 | 44 | 239 | 239 | 240 | 240 |
| M | 06 | 45 | 240 | 240 | 241 | 242 |
| M | 06 | 46 | 241 | 242 | 243 | 243 |
| M | 06 | 47 | 243 | 243 | 244 | 245 |

| | | | | | | |
|---|----|----|-----|-----|-----|-----|
| M | 06 | 48 | 244 | 245 | 246 | 247 |
| M | 06 | 49 | 246 | 246 | 248 | 248 |
| M | 06 | 50 | 248 | 248 | 249 | 250 |
| M | 06 | 51 | 249 | 250 | 251 | 252 |
| M | 06 | 52 | 251 | 251 | 253 | 253 |
| M | 06 | 53 | 252 | 253 | 255 | 255 |
| M | 06 | 54 | 254 | 254 | 256 | 257 |
| M | 06 | 55 | 256 | 256 | 258 | 259 |
| M | 06 | 56 | 258 | 258 | 260 | 261 |
| M | 06 | 57 | 259 | 259 | 262 | 262 |
| M | 06 | 58 | 261 | 261 | 264 | 264 |
| M | 06 | 59 | 263 | 263 | 266 | 266 |
| M | 06 | 60 | 265 | 265 | 268 | 269 |
| M | 06 | 61 | 267 | 267 | 270 | 271 |
| M | 06 | 62 | 270 | 270 | 273 | 273 |
| M | 06 | 63 | 272 | 272 | 276 | 276 |
| M | 06 | 64 | 275 | 274 | 278 | 278 |
| M | 06 | 65 | 276 | 276 | 280 | 281 |
| M | 06 | 66 | 280 | 280 | 283 | 284 |
| M | 06 | 67 | 283 | 283 | 286 | 287 |
| M | 06 | 68 | 287 | 286 | 290 | 291 |
| M | 06 | 69 | 291 | 290 | 294 | 294 |
| M | 06 | 70 | 295 | 294 | 298 | 299 |
| M | 06 | 71 | 300 | 299 | 303 | 304 |
| M | 06 | 72 | 306 | 305 | 309 | 310 |
| M | 06 | 73 | 313 | 312 | 317 | 318 |
| M | 06 | 74 | 323 | 322 | 328 | 328 |
| M | 06 | 75 | 338 | 338 | 347 | 348 |
| M | 06 | 76 | 379 | 379 | 379 | 379 |

Grade 7 Mathematics

| Subject | Grade | Raw Score | 2007 | 2008 | 2009 | LM |
|---------|-------|-----------|------|------|------|-----|
| M | 07 | 0 | 120 | 120 | 120 | 120 |
| M | 07 | 1 | 120 | 120 | 120 | 120 |
| M | 07 | 2 | 136 | 135 | 135 | 129 |
| M | 07 | 3 | 148 | 147 | 147 | 142 |
| M | 07 | 4 | 157 | 156 | 156 | 151 |
| M | 07 | 5 | 164 | 162 | 163 | 158 |
| M | 07 | 6 | 170 | 168 | 169 | 163 |
| M | 07 | 7 | 175 | 173 | 173 | 168 |
| M | 07 | 8 | 179 | 177 | 178 | 173 |
| M | 07 | 9 | 183 | 181 | 182 | 176 |
| M | 07 | 10 | 186 | 185 | 185 | 180 |
| M | 07 | 11 | 190 | 188 | 188 | 183 |
| M | 07 | 12 | 193 | 191 | 192 | 186 |
| M | 07 | 13 | 196 | 195 | 195 | 189 |
| M | 07 | 14 | 198 | 197 | 197 | 191 |
| M | 07 | 15 | 201 | 199 | 200 | 194 |
| M | 07 | 16 | 203 | 202 | 202 | 197 |
| M | 07 | 17 | 205 | 204 | 205 | 199 |
| M | 07 | 18 | 207 | 207 | 207 | 202 |
| M | 07 | 19 | 210 | 208 | 209 | 205 |
| M | 07 | 20 | 212 | 211 | 211 | 207 |
| M | 07 | 21 | 214 | 213 | 213 | 210 |
| M | 07 | 22 | 216 | 215 | 215 | 212 |
| M | 07 | 23 | 218 | 217 | 217 | 215 |
| M | 07 | 24 | 219 | 219 | 219 | 217 |
| M | 07 | 25 | 221 | 221 | 221 | 219 |
| M | 07 | 26 | 223 | 223 | 223 | 222 |
| M | 07 | 27 | 225 | 225 | 225 | 224 |
| M | 07 | 28 | 226 | 226 | 227 | 226 |
| M | 07 | 29 | 228 | 228 | 229 | 228 |
| M | 07 | 30 | 230 | 230 | 231 | 230 |
| M | 07 | 31 | 231 | 232 | 232 | 232 |
| M | 07 | 32 | 233 | 233 | 235 | 235 |
| M | 07 | 33 | 235 | 235 | 236 | 236 |
| M | 07 | 34 | 236 | 237 | 238 | 238 |
| M | 07 | 35 | 238 | 238 | 239 | 240 |
| M | 07 | 36 | 239 | 240 | 241 | 242 |
| M | 07 | 37 | 241 | 241 | 243 | 244 |
| M | 07 | 38 | 242 | 243 | 245 | 245 |
| M | 07 | 39 | 244 | 245 | 246 | 247 |
| M | 07 | 40 | 245 | 246 | 248 | 249 |
| M | 07 | 41 | 247 | 248 | 250 | 251 |
| M | 07 | 42 | 248 | 250 | 251 | 253 |
| M | 07 | 43 | 250 | 251 | 253 | 254 |
| M | 07 | 44 | 251 | 253 | 255 | 256 |
| M | 07 | 45 | 253 | 254 | 256 | 258 |
| M | 07 | 46 | 254 | 256 | 258 | 259 |
| M | 07 | 47 | 256 | 258 | 260 | 261 |

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|---|----|----|-----|-----|-----|-----|
| M | 07 | 48 | 257 | 259 | 262 | 263 |
| M | 07 | 49 | 259 | 261 | 263 | 264 |
| M | 07 | 50 | 261 | 263 | 265 | 266 |
| M | 07 | 51 | 263 | 265 | 267 | 268 |
| M | 07 | 52 | 264 | 267 | 269 | 270 |
| M | 07 | 53 | 266 | 268 | 271 | 271 |
| M | 07 | 54 | 268 | 270 | 272 | 273 |
| M | 07 | 55 | 269 | 272 | 274 | 275 |
| M | 07 | 56 | 271 | 274 | 276 | 277 |
| M | 07 | 57 | 273 | 276 | 278 | 279 |
| M | 07 | 58 | 275 | 278 | 281 | 281 |
| M | 07 | 59 | 277 | 281 | 282 | 283 |
| M | 07 | 60 | 279 | 282 | 285 | 285 |
| M | 07 | 61 | 281 | 285 | 287 | 287 |
| M | 07 | 62 | 283 | 287 | 289 | 289 |
| M | 07 | 63 | 286 | 290 | 292 | 292 |
| M | 07 | 64 | 288 | 292 | 294 | 294 |
| M | 07 | 65 | 291 | 295 | 297 | 297 |
| M | 07 | 66 | 294 | 298 | 300 | 301 |
| M | 07 | 67 | 297 | 302 | 303 | 304 |
| M | 07 | 68 | 300 | 306 | 307 | 308 |
| M | 07 | 69 | 304 | 310 | 311 | 312 |
| M | 07 | 70 | 309 | 315 | 316 | 317 |
| M | 07 | 71 | 314 | 320 | 322 | 323 |
| M | 07 | 72 | 319 | 328 | 329 | 331 |
| M | 07 | 73 | 327 | 337 | 339 | 341 |
| M | 07 | 74 | 337 | 353 | 356 | 358 |
| M | 07 | 75 | 352 | 392 | 392 | 392 |
| M | | 76 | 392 | | | |

Grade 8 Mathematics

| Subject | Grade | Raw Score | 2007 | 2008 | 2009 | LM |
|---------|-------|-----------|------|------|------|-----|
| M | 08 | 0 | 120 | 120 | 120 | 120 |
| M | 08 | 1 | 136 | 134 | 135 | 132 |
| M | 08 | 2 | 156 | 152 | 154 | 151 |
| M | 08 | 3 | 167 | 164 | 166 | 163 |
| M | 08 | 4 | 176 | 173 | 175 | 172 |
| M | 08 | 5 | 182 | 180 | 181 | 178 |
| M | 08 | 6 | 188 | 185 | 187 | 184 |
| M | 08 | 7 | 193 | 190 | 192 | 189 |
| M | 08 | 8 | 197 | 194 | 196 | 193 |
| M | 08 | 9 | 201 | 198 | 200 | 197 |
| M | 08 | 10 | 204 | 201 | 203 | 200 |
| M | 08 | 11 | 207 | 204 | 206 | 203 |
| M | 08 | 12 | 210 | 207 | 209 | 206 |
| M | 08 | 13 | 213 | 210 | 212 | 209 |
| M | 08 | 14 | 216 | 213 | 215 | 211 |
| M | 08 | 15 | 218 | 215 | 218 | 214 |
| M | 08 | 16 | 221 | 217 | 221 | 216 |
| M | 08 | 17 | 223 | 221 | 222 | 218 |
| M | 08 | 18 | 225 | 223 | 225 | 220 |
| M | 08 | 19 | 227 | 225 | 227 | 221 |
| M | 08 | 20 | 229 | 228 | 229 | 224 |
| M | 08 | 21 | 231 | 230 | 231 | 227 |
| M | 08 | 22 | 233 | 232 | 233 | 229 |
| M | 08 | 23 | 235 | 234 | 235 | 232 |
| M | 08 | 24 | 236 | 236 | 236 | 234 |
| M | 08 | 25 | 238 | 238 | 238 | 236 |
| M | 08 | 26 | 240 | 240 | 240 | 238 |
| M | 08 | 27 | 242 | 242 | 242 | 240 |
| M | 08 | 28 | 243 | 243 | 243 | 242 |
| M | 08 | 29 | 245 | 245 | 245 | 244 |
| M | 08 | 30 | 246 | 246 | 246 | 246 |
| M | 08 | 31 | 248 | 248 | 248 | 247 |
| M | 08 | 32 | 250 | 249 | 249 | 249 |
| M | 08 | 33 | 251 | 251 | 251 | 251 |
| M | 08 | 34 | 253 | 252 | 252 | 253 |
| M | 08 | 35 | 254 | 254 | 254 | 254 |
| M | 08 | 36 | 256 | 255 | 255 | 256 |
| M | 08 | 37 | 257 | 257 | 257 | 257 |
| M | 08 | 38 | 259 | 258 | 258 | 259 |
| M | 08 | 39 | 260 | 260 | 259 | 261 |
| M | 08 | 40 | 262 | 261 | 261 | 262 |
| M | 08 | 41 | 263 | 262 | 262 | 264 |
| M | 08 | 42 | 265 | 264 | 264 | 265 |
| M | 08 | 43 | 266 | 265 | 265 | 267 |
| M | 08 | 44 | 268 | 267 | 267 | 268 |
| M | 08 | 45 | 269 | 268 | 268 | 269 |
| M | 08 | 46 | 271 | 270 | 269 | 271 |
| M | 08 | 47 | 272 | 271 | 271 | 272 |

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|---|----|----|-----|-----|-----|-----|
| M | 08 | 48 | 274 | 273 | 273 | 274 |
| M | 08 | 49 | 276 | 274 | 274 | 275 |
| M | 08 | 50 | 277 | 276 | 276 | 277 |
| M | 08 | 51 | 279 | 277 | 277 | 278 |
| M | 08 | 52 | 280 | 279 | 279 | 279 |
| M | 08 | 53 | 282 | 280 | 280 | 281 |
| M | 08 | 54 | 284 | 282 | 282 | 282 |
| M | 08 | 55 | 286 | 284 | 283 | 284 |
| M | 08 | 56 | 288 | 285 | 285 | 285 |
| M | 08 | 57 | 289 | 288 | 287 | 287 |
| M | 08 | 58 | 291 | 289 | 288 | 288 |
| M | 08 | 59 | 293 | 291 | 290 | 290 |
| M | 08 | 60 | 295 | 293 | 292 | 292 |
| M | 08 | 61 | 298 | 295 | 294 | 293 |
| M | 08 | 62 | 300 | 297 | 296 | 295 |
| M | 08 | 63 | 303 | 299 | 298 | 297 |
| M | 08 | 64 | 305 | 302 | 301 | 299 |
| M | 08 | 65 | 308 | 304 | 303 | 301 |
| M | 08 | 66 | 311 | 307 | 306 | 304 |
| M | 08 | 67 | 314 | 310 | 309 | 306 |
| M | 08 | 68 | 318 | 313 | 312 | 309 |
| M | 08 | 69 | 321 | 317 | 316 | 312 |
| M | 08 | 70 | 326 | 321 | 320 | 316 |
| M | 08 | 71 | 331 | 327 | 324 | 321 |
| M | 08 | 72 | 337 | 333 | 331 | 327 |
| M | 08 | 73 | 344 | 341 | 339 | 335 |
| M | 08 | 74 | 354 | 353 | 350 | 346 |
| M | 08 | 75 | 369 | 371 | 370 | 365 |
| M | 08 | 76 | 410 | 410 | 410 | 410 |

Grade 4 Science

| Subject | Grade | Raw Score | 2007 | 2008 | 2009 | LM |
|---------|-------|-----------|------|------|------|-----|
| S | 04 | 0 | 120 | 120 | 120 | 120 |
| S | 04 | 1 | 120 | 120 | 120 | 120 |
| S | 04 | 2 | 120 | 120 | 120 | 120 |
| S | 04 | 3 | 120 | 120 | 120 | 120 |
| S | 04 | 4 | 120 | 120 | 120 | 120 |
| S | 04 | 5 | 120 | 120 | 120 | 120 |
| S | 04 | 6 | 120 | 120 | 120 | 120 |
| S | 04 | 7 | 120 | 120 | 120 | 120 |
| S | 04 | 8 | 120 | 120 | 120 | 120 |
| S | 04 | 9 | 120 | 122 | 120 | 120 |
| S | 04 | 10 | 123 | 126 | 124 | 124 |
| S | 04 | 11 | 127 | 129 | 127 | 128 |
| S | 04 | 12 | 130 | 133 | 131 | 131 |
| S | 04 | 13 | 134 | 136 | 134 | 134 |
| S | 04 | 14 | 137 | 139 | 137 | 137 |
| S | 04 | 15 | 140 | 142 | 140 | 140 |
| S | 04 | 16 | 142 | 145 | 143 | 143 |
| S | 04 | 17 | 145 | 147 | 145 | 146 |
| S | 04 | 18 | 147 | 150 | 148 | 148 |
| S | 04 | 19 | 150 | 152 | 151 | 151 |
| S | 04 | 20 | 152 | 155 | 153 | 153 |
| S | 04 | 21 | 154 | 157 | 155 | 155 |
| S | 04 | 22 | 156 | 159 | 158 | 158 |
| S | 04 | 23 | 158 | 161 | 160 | 160 |
| S | 04 | 24 | 160 | 163 | 162 | 162 |
| S | 04 | 25 | 163 | 165 | 164 | 164 |
| S | 04 | 26 | 165 | 167 | 166 | 166 |
| S | 04 | 27 | 166 | 169 | 168 | 168 |
| S | 04 | 28 | 169 | 171 | 170 | 170 |
| S | 04 | 29 | 170 | 173 | 172 | 172 |
| S | 04 | 30 | 172 | 175 | 174 | 174 |
| S | 04 | 31 | 174 | 177 | 176 | 176 |
| S | 04 | 32 | 176 | 179 | 178 | 178 |
| S | 04 | 33 | 178 | 181 | 180 | 180 |
| S | 04 | 34 | 179 | 182 | 181 | 181 |
| S | 04 | 35 | 181 | 184 | 183 | 183 |
| S | 04 | 36 | 183 | 186 | 185 | 185 |
| S | 04 | 37 | 185 | 188 | 187 | 187 |
| S | 04 | 38 | 187 | 190 | 189 | 189 |
| S | 04 | 39 | 189 | 191 | 191 | 191 |
| S | 04 | 40 | 190 | 193 | 193 | 193 |
| S | 04 | 41 | 192 | 195 | 194 | 194 |
| S | 04 | 42 | 194 | 197 | 196 | 196 |
| S | 04 | 43 | 196 | 199 | 198 | 198 |
| S | 04 | 44 | 198 | 200 | 200 | 200 |
| S | 04 | 45 | 199 | 202 | 202 | 202 |
| S | 04 | 46 | 202 | 204 | 204 | 204 |
| S | 04 | 47 | 203 | 206 | 206 | 206 |

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|---|----|----|-----|-----|-----|-----|
| S | 04 | 48 | 205 | 208 | 208 | 208 |
| S | 04 | 49 | 207 | 210 | 210 | 210 |
| S | 04 | 50 | 209 | 212 | 212 | 212 |
| S | 04 | 51 | 211 | 214 | 214 | 214 |
| S | 04 | 52 | 213 | 216 | 216 | 216 |
| S | 04 | 53 | 215 | 218 | 218 | 218 |
| S | 04 | 54 | 218 | 220 | 220 | 220 |
| S | 04 | 55 | 220 | 223 | 223 | 223 |
| S | 04 | 56 | 222 | 225 | 225 | 225 |
| S | 04 | 57 | 224 | 227 | 227 | 227 |
| S | 04 | 58 | 227 | 230 | 230 | 230 |
| S | 04 | 59 | 229 | 232 | 232 | 232 |
| S | 04 | 60 | 232 | 235 | 235 | 235 |
| S | 04 | 61 | 234 | 238 | 237 | 237 |
| S | 04 | 62 | 237 | 241 | 241 | 241 |
| S | 04 | 63 | 241 | 244 | 244 | 244 |
| S | 04 | 64 | 244 | 247 | 247 | 247 |
| S | 04 | 65 | 247 | 251 | 251 | 251 |
| S | 04 | 66 | 251 | 255 | 255 | 254 |
| S | 04 | 67 | 255 | 259 | 259 | 259 |
| S | 04 | 68 | 260 | 263 | 263 | 263 |
| S | 04 | 69 | 265 | 269 | 269 | 269 |
| S | 04 | 70 | 271 | 275 | 275 | 275 |
| S | 04 | 71 | 279 | 282 | 282 | 282 |
| S | 04 | 72 | 288 | 292 | 292 | 292 |
| S | 04 | 73 | 301 | 305 | 305 | 304 |
| S | 04 | 74 | 323 | 326 | 326 | 326 |
| S | 04 | 75 | 359 | 363 | 363 | 363 |

Grade 7 Science

| Subject | Grade | Raw Score | 2007 | 2008 | 2009 | LM |
|---------|-------|-----------|------|------|------|-----|
| S | 07 | 0 | 120 | 120 | 120 | 120 |
| S | 07 | 1 | 120 | 120 | 120 | 120 |
| S | 07 | 2 | 120 | 120 | 120 | 120 |
| S | 07 | 3 | 120 | 120 | 120 | 120 |
| S | 07 | 4 | 123 | 125 | 121 | 123 |
| S | 07 | 5 | 130 | 132 | 129 | 131 |
| S | 07 | 6 | 136 | 138 | 135 | 137 |
| S | 07 | 7 | 141 | 144 | 140 | 142 |
| S | 07 | 8 | 146 | 148 | 145 | 147 |
| S | 07 | 9 | 151 | 153 | 149 | 152 |
| S | 07 | 10 | 154 | 157 | 153 | 155 |
| S | 07 | 11 | 158 | 160 | 157 | 159 |
| S | 07 | 12 | 161 | 164 | 160 | 162 |
| S | 07 | 13 | 164 | 167 | 163 | 165 |
| S | 07 | 14 | 167 | 170 | 166 | 168 |
| S | 07 | 15 | 170 | 173 | 169 | 171 |
| S | 07 | 16 | 173 | 175 | 172 | 174 |
| S | 07 | 17 | 175 | 178 | 174 | 177 |
| S | 07 | 18 | 177 | 180 | 177 | 179 |
| S | 07 | 19 | 180 | 183 | 179 | 181 |
| S | 07 | 20 | 182 | 185 | 181 | 184 |
| S | 07 | 21 | 184 | 187 | 184 | 186 |
| S | 07 | 22 | 187 | 189 | 186 | 188 |
| S | 07 | 23 | 189 | 191 | 188 | 191 |
| S | 07 | 24 | 191 | 194 | 190 | 193 |
| S | 07 | 25 | 193 | 196 | 192 | 194 |
| S | 07 | 26 | 195 | 198 | 194 | 197 |
| S | 07 | 27 | 197 | 200 | 197 | 199 |
| S | 07 | 28 | 199 | 202 | 198 | 200 |
| S | 07 | 29 | 200 | 204 | 200 | 202 |
| S | 07 | 30 | 202 | 205 | 202 | 204 |
| S | 07 | 31 | 204 | 207 | 204 | 206 |
| S | 07 | 32 | 206 | 209 | 206 | 208 |
| S | 07 | 33 | 208 | 211 | 208 | 210 |
| S | 07 | 34 | 210 | 213 | 210 | 212 |
| S | 07 | 35 | 211 | 215 | 211 | 214 |
| S | 07 | 36 | 214 | 217 | 214 | 215 |
| S | 07 | 37 | 215 | 218 | 215 | 217 |
| S | 07 | 38 | 217 | 220 | 217 | 219 |
| S | 07 | 39 | 219 | 222 | 219 | 221 |
| S | 07 | 40 | 220 | 224 | 220 | 223 |
| S | 07 | 41 | 222 | 226 | 222 | 224 |
| S | 07 | 42 | 224 | 227 | 224 | 226 |
| S | 07 | 43 | 226 | 229 | 226 | 228 |
| S | 07 | 44 | 228 | 231 | 228 | 230 |
| S | 07 | 45 | 229 | 233 | 230 | 232 |
| S | 07 | 46 | 231 | 235 | 232 | 234 |
| S | 07 | 47 | 233 | 237 | 233 | 236 |

| | | | | | | |
|---|----|----|-----|-----|-----|-----|
| S | 07 | 48 | 235 | 239 | 236 | 237 |
| S | 07 | 49 | 237 | 241 | 237 | 240 |
| S | 07 | 50 | 239 | 243 | 240 | 241 |
| S | 07 | 51 | 241 | 245 | 242 | 243 |
| S | 07 | 52 | 243 | 247 | 243 | 246 |
| S | 07 | 53 | 245 | 249 | 246 | 248 |
| S | 07 | 54 | 247 | 251 | 248 | 250 |
| S | 07 | 55 | 249 | 253 | 250 | 252 |
| S | 07 | 56 | 252 | 256 | 253 | 254 |
| S | 07 | 57 | 254 | 258 | 255 | 256 |
| S | 07 | 58 | 256 | 260 | 257 | 260 |
| S | 07 | 59 | 260 | 263 | 260 | 262 |
| S | 07 | 60 | 262 | 266 | 262 | 264 |
| S | 07 | 61 | 264 | 268 | 265 | 267 |
| S | 07 | 62 | 267 | 271 | 268 | 270 |
| S | 07 | 63 | 270 | 274 | 271 | 273 |
| S | 07 | 64 | 274 | 278 | 275 | 276 |
| S | 07 | 65 | 277 | 281 | 278 | 280 |
| S | 07 | 66 | 281 | 285 | 282 | 284 |
| S | 07 | 67 | 285 | 289 | 286 | 288 |
| S | 07 | 68 | 290 | 294 | 291 | 292 |
| S | 07 | 69 | 295 | 299 | 296 | 298 |
| S | 07 | 70 | 301 | 305 | 302 | 304 |
| S | 07 | 71 | 309 | 313 | 310 | 311 |
| S | 07 | 72 | 318 | 322 | 319 | 321 |
| S | 07 | 73 | 331 | 335 | 332 | 333 |
| S | 07 | 74 | 352 | 357 | 354 | 355 |
| S | 07 | 75 | 389 | 393 | 390 | 392 |

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