## It was fun

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Question 36 was designed to elicit expressions for something that was fun:
36 Your teacher taught your class a new game, which you all really enjoyed. Jostie was away, but when he got back, you told him about it. How would you tell him that you really enjoyed it?

The real interest of the question for us was the constructions using the word fun, but we were unable to devise a question which restricted the responses to the use of this word. As a result, we received many responses using other purr words. Most of these had occurred in response to other questions, and so there was little that was new in the responses to this question. However, the proportions of usage of various purr words were different in this question from those elsewhere, which suggests that although cool, sweet, awesome, wicked, etc. may be alternatives, there are shades of difference between them which lead to different frequencies in different contexts.
In this question, words or phrases with the same roots were grouped together, so that mean and meanest were grouped, and so were choice and choice as, and kick arse and kicked arse. All the responses involving fun were grouped at one level, but because these were our focus, the individual contributing items in that group were also treated separately.
After grouping, there were still a large number of items in answer to this question. All very low frequency ones were ignored, but there were still a substantial number of responses remaining to be examined. These were grouped according to their frequency.
The highest frequency forms were cool (112); awesome (70); fun (35); da bomb (26); ruley (25); wicked (24); it rocked (24).
Cool was so frequent as to be not worth mapping. It was found everywhere, and the few patches where it was thinnest are almost certainly of no significance.
(Every school, without exception, as far south as Hamilton reported it!)
Awesome also had very extensive coverage from Northland to Southland, with no sign of any patterning.
Fun was reported much more sporadically than either of the above, but it was also reported from all regions with no clear signs of regionalisation.
Da bomb was much more common in the North Island than the South and also more frequent in the Northern Region than elsewhere:

|  | North Island |  | South Island |  |
| :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ | No. | $\%$ |
| Schools | 93 | 62 | 57 | 38 |
| Da bomb | 23 | 88 | 3 | 12 |


|  | Northern Region |  | Central Region |  | Southern Region |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ of total | No. | $\%$ of total | No. | \% of total |
| Schools | 57 | 38 | 78 | 52 | 14 | 9 |
| Da bomb | 17 | 65 | 7 | 27 | 1 | 3 |

Even taking into account the scarcity of reports from the South Island, it is more common in the Northern Region than in the Central Region. The figures for the North Island sector of the Central Region are given below:

|  | Northern Region |  | N. Is. Sector of Central Region |  |
| :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ | No. | $\%$ |
| Schools | 57 | 38 | 35 | 23 |
| Da bomb | 17 | 65 | 5 | 19 |

Ruley (comprising it ruled and ruley) was reported from Northland to Southland. It was also more common in the North Island than the South:

|  | North Island |  | South Island |  |
| :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ | No. | $\%$ |
| Schools | 93 | 62 | 57 | 38 |
| Ruley | 19 | 76 | 6 | 24 |

Wicked was reported from just north of Auckland to Southland. It was evenly distributed through the regions, but perhaps a little under-represented in the North Island as a whole:

|  | North Island |  | South Island |  |
| :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ | No. | $\%$ |
| Schools | 93 | 62 | 57 | 38 |
| Wicked | 13 | 54 | 11 | 46 |

It rocked was reported from Northland to Southland, with no major holes in its distribution, and no obvious tendencies to regionalism.
The next group of terms in frequency were: choice (17); primo (15); sweet (13); kick arse (12); radical (10); the best (10).
Choice was reported from Northland to Southland, with no obvious patterning.
Primo was reported most frequently from the Central Region, as was the case with this form in Q24:

|  | Northern Region |  | Central Region |  | Southern Region |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ of total | No. | $\%$ of total | No. | \% of total |
| Schools | 57 | 38 | 78 | 52 | 14 | 9 |
| Primo | 4 | 27 | 10 | 67 | 0 | 0 |

(Interestingly, perhaps, it was not precisely the same three schools in the Northern Region which reported primo in Q24: only one of them was the same.) Primo shows some sign of being a low decile form, although it will require statistical analysis to confirm that this is significant:


Sweet was reported from Northland to Southland, but there was a large gap in the reports in this context from Hawkes Bay and Taranaki south as far as North Canterbury. There were more reports from the South Island than the North:

|  | North Island |  | South Island |  |
| :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ | No. | $\%$ |
| Schools | 93 | 62 | 57 | 38 |
| Sweet | 6 | 46 | 7 | 54 |

Kick arse was reported from Northland to Otago. With such a low frequency form, there are some quite large gaps in the reports, but they do not seem to follow any particular pattern.
Radical was reported from Auckland to Central Otago. However, most of the reports in this context were from the Central Region:

|  | Northern Region |  | Central Region |  | Southern Region |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ of total | No. | $\%$ of total | No. | \% of total |
| Schools | 57 | 38 | 78 | 52 | 14 | 9 |
| Radical | 2 | 20 | 8 | 80 | 0 | 0 |

The best was reported from Auckland to north Canterbury. The reports of this were strangely distributed: half were from Auckland city, and then there was one in Taranaki, one in Wellington, one in Marlborough, one on the West Coast, and one in North Canterbury.
A few very low frequency terms showed some signs of clustering, and these are noted here for the record.
Mean(est) was reported only 6 times, and three of these reports were from Northland, one from Auckland, one from Hamilton, and one from Hawkes Bay. Far out was reported only 4 times, twice from adjacent boxes in the King Country, once from Taranaki, and once from Wellington, with one school from each of the lowest four deciles reporting it. This term is frequently used as a term of disapproval, rather than of approval, and its appearance in this context was investigated during school visits, though without producing great insights. Mint was reported three times, all of them from Northland. This term was also reported three times in Q 24, but there two of the three were from Northland, and one was from north Canterbury. Only one of the Northland schools was the same in both questions. The schools reporting it were all in the lowest 5 deciles.

The forms using the word fun were grouped according to whether they used fun as a noun or fun as an adjective, since this was the purpose of including this question. Thus so fun and very fun were grouped, and It was great fun and We had fun were grouped. Real fun and a fun game were left on their own, because it is unclear which group they belong to. There was also one report of It was so funny, which sounds like a non-native speaker error, although there was nothing to indicate that this was its source. There were 29 reports of the nominal use; 6 reports of adjectival use; 4 reports of a fun game; and one each of real fun and it was so funny.
The nominal use was reported from Northland to Southland, although there were a number of thin patches. It was a little more frequent in the South Island than the norm, but the difference is not particularly striking.

|  | North Island |  | South Island |  |
| :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ | No. | $\%$ |
| Schools | 93 | 62 | 57 | 38 |
| Fun (n.) | 16 | 55 | 13 | 45 |

It is rather less frequent in the Central Region than the norm, and considerably more frequent in the Southern Region than might be expected.

|  | Northern Region |  | Central Region |  | Southern Region |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  | No. | $\%$ of total | No. | $\%$ of total | No. | \% of total |
| Schools | 57 | 38 | 78 | 52 | 14 | 9 |
| Fun (n.) | 11 | 38 | 12 | 41 | 6 | 21 |

Three of the six occurrences of fun (adj.) were from the Wellington region, with one from Hawkes Bay, one from Auckland (a school which regularly reports forms from a variety of regions), and another from an ESL speaker in an Auckland school. There is thus at least a suggestion that this is a Wellingtonbased form. An attempt was made to pursue this in the third stage of the project. Since we know it is in use by Wellingtonians in their thirties, and is widespread in Wellington, establishing the extent and direction of the spread might be interesting.
During the third stage of the project, 33 schools were visited. One of the questions put to the children interviewed was this: "Lots of children use the word fun to describe things they do. Can you tell me some of the ways you use the word fun?" This was, of course, much more direct than the questionnaire approach, and has all the usual problems associated with self-reporting. However, it seemed the only possible way to obtain further data. For all of the forms volunteered, an attempt was made to find out whether there were children who thought they could not use that form as well. Thus we have data for those who think so fun is fine, and for those who think you can't say so fun. There was remarkably little to be gleaned from this data. The constructions volunteered were:
so fun (26/33 schools said this was good; 19/33 said it was not good; in 13 schools both responses were obtained from different children). Very few
schools in the Northern Region rejected it; most of the schools in the Central and Southern Regions were divided in their opinions.
very fun ( $13 / 33$ schools said this was good; $27 / 33$ schools said it was not good; in 9 schools both responses were obtained). There was no sign of regional or social patterning in either the positive or the negative responses.
really fun ( $32 / 33$ schools said this was good; $6 / 33$ schools said it was not good; in 5 schools both responses were obtained, i.e. only one school rejected it completely).
real fun ( $20 / 33$ schools said this was good; $15 / 33$ schools said it was not good; 6 schools reported both responses). There was no sign of regional or social patterning in the responses.
great fun ( $22 / 33$ schools said this was good; $23 / 33$ schools said it was not good; 13 schools provided both responses). Most of the gaps in the positive response list were in the lower half of the North Island.
good fun (19/33 schools said this was good; 12 schools rejected it; 7 schools reported both reactions). There was no sign of patterning in the results. so much fun (22/33 schools said this was good; 8 schools said it was not good; 4 provided both responses). It appears to be accepted most consistently in the Northern Region, and rejected most consistently in the North Island part of the Central Region.
Lots/heaps of fun (27/33 schools said this was good; 6 schools rejected it; in all those 6 schools, both responses were obtained).
Such fun (4 schools accepted this; 22 schools rejected it; two schools reported both responses).
Inevitably, there were some gaps in the data collection, so that the numbers do not always add up. Some of the reactions were interesting: many of these were regarded as "posh" by the children. They also volunteered things like neat fun, cool fun, fun as, funnest. In general, all that can be ascertained from these responses is that there is evidence for widespread use of fun as an adjective: only five schools rejected both so and very with fun.

## Statistical Analysis

The forms selected for statistical analysis were da bomb, mint, primo, radical, and it ruled.
Da bomb is significantly more common in the Northern than the Central Region (p-value 0.0018). It is also significantly more common in the North Island than the South ( $p$-value 0.0055). The interaction between Main Region and Island was therefore considered. The results showed that the p-value for the Northern Central contrast when Island is taken into account, while not significant ( 0.0814 , obtained from a contrast statement), is nevertheless lower than the p-value for Island variation when Main Region is taken into account (0.1581). Thus Main Region has a stronger effect than Island on the distribution of da bomb. Mint was shown to be low decile ( p -value 0.0136). It is found only in the Northern Region, and more specifically, it is restricted to Northland.
Primo was shown to be low decile ( p -value 0.0329 ). It was not reported from the Southern Region. (It came close to significance in relation to both the North Island and rural schools.)
Radical was not reported from the Southern Region.
It ruled did not correlate significantly with any of these factors.

## Summary <br> This was not a particularly productive question. However, when put together with the data from the school visits, it suggests that fun has widespread acceptance as an adjective, which would not have been the case 50 years ago, we imagine. <br> A map of the most interesting forms follows.

Map: Da bomb, mint, primo, radical



Key
Note that the insets are not to scale, nor all on the same scale for practical reasons. Each box represents one school in both urban and rural areas.

| $\square$ | da bomb | $\square$ | See urban map insert |
| :--- | :--- | :--- | :--- |
| $\square$ | primo | $\square$ | radical |
| $\square$ |  |  |  |

Q36 Statistics: Great game
Great game by Decile
Analysis Of GEE Parameter Estimates - Empirical 95\% Confidence Limits

| parameter |  | Estimate | Std Err | Lower | Upper | Z | $\operatorname{Pr}>\|\mathrm{Z}\|$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| intercept | 0.0000 | . | . | . | . | . |  |
| item | da bomb | -0.9625 | 0.4843 | -1.9116 | -0.0133 | -1.987 | 0.0469 |
| item | mint | -2.2336 | 0.7875 | -3.7771 | -0.6901 | -2.836 | 0.0046 |
| item | primo | -1.0964 | 0.5330 | -2.1411 | -0.0517 | -2.057 | 0.0397 |
| item | radical | -3.7036 | 0.7558 | -5.1849 | -2.2223 | -4.900 | 0.0000 |
| item | ruled | -1.8631 | 0.5233 | -2.8887 | -0.8374 | -3.560 | 0.0004 |
| decile*item | da bomb | -0.1090 | 0.0834 | -0.2724 | 0.0544 | -1.308 | 0.1909 |
| decile*item | mint | -0.3695 | 0.1497 | -0.6630 | -0.0760 | -2.468 | $\mathbf{0 . 0 1 3 6}$ |
| decile*item | primo | -0.2150 | 0.1008 | -0.4125 | -0.0175 | -2.134 | 0.0329 |
| decile*item | radical | 0.1689 | 0.1008 | -0.0286 | 0.3665 | 1.6758 | 0.0938 |
| decile*item | ruled | 0.0433 | 0.0793 | -0.1121 | 0.1988 | 0.5460 | 0.5851 |
| scale | 0.9681 | . | . | . | . | . |  |

Great game by Main Region
Analysis Of Initial Parameter Estimates

| parameter |  | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| intercept | 0 | 0.00 | 0.0000 | . | . |  |
| item | da bomb | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | mint | 1 | -26.3651 | 0.5932 | 1975.6043 | 0.0001 |
| item | primo | 1 | -26.3651 | 0.3387 | 6060.0112 | 0.0001 |
| item | radical | 1 | -26.3652 | 0.3732 | 4990.6260 | 0.0001 |
| item | ruled | 1 | -1.2993 | 0.6513 | 3.9792 | 0.0461 |
| item*region1 | da bomb, 1 | 1 | 1.7093 | 1.0774 | 2.5170 | 0.1126 |
| item*region1 | da bomb, 2 | 1 | 0.2482 | 1.1108 | 0.0499 | 0.8232 |
| item*region1 | da bomb, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | mint, 1 | 0 | 23.4748 | 0.0000 | . | . |
| item*region1 | mint, 2 | 1 | -0.0002 | 60132.5783 | 0.0000 | 1.0000 |
| item*region1 | mint, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | primo, 1 | 1 | 23.7811 | 0.6193 | 1474.4000 | $\mathbf{0 . 0 0 0 1}$ |
| item*region1 | primo, 2 | 0 | 24.4482 | 0.0000 | . | . |
| item*region1 | primo, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | radical, 1 | 1 | 23.0510 | 0.8108 | 808.1745 | $\mathbf{0 . 0 0 0 1}$ |
| item*region1 | radical, 2 | 0 | 24.1961 | 0.0000 | . | . |
| item*region1 | radical, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ruled, 1 | 1 | 0.0800 | 0.7238 | 0.0122 | 0.9119 |
| item*region1 | ruled, 2 | 1 | -0.7376 | 0.7415 | 0.9895 | 0.3199 |
| item*region1 | ruled 3 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . |  |

CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
| :--- | :--- | :--- | :--- | :--- |
| $1-2$ for da bomb | 1 | 9.7904 | $\mathbf{0 . 0 0 1 8}$ | LR |
| $1-2$ for ruled | 1 | 3.0284 | 0.0818 | LR |

## Great game by Sub-Region

Analysis Of Initial Parameter Estimates

| parameter |  | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| intercept | 0 | 0.00 | 0.0000 | . | . |  |
| item | da bomb | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | mint | 1 | -26.3651 | 1.0954 | 579.2637 | 0.0001 |
| item | primo | 1 | -26.3651 | 1.0541 | 625.6080 | 0.0001 |
| item | radical | 1 | -26.3652 | 0.7906 | 1112.2010 | 0.0001 |
| item | ruled | 1 | -1.2993 | 0.6513 | 3.9792 | 0.0461 |
| item*region2 | da bomb, 1 | 1 | 2.5649 | 1.3205 | 3.7732 | 0.0521 |
| item*region2 | da bomb, 2 | 1 | -23.8004 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | da bomb, 3 | 1 | 2.0260 | 1.1415 | 3.1498 | 0.0759 |
| item*region2 | da bomb, 4 | 1 | 1.5664 | 1.1280 | 1.9284 | 0.1649 |
| item*region2 | da bomb, 5 | 1 | 0.1671 | 1.4724 | 0.0129 | 0.9097 |
| item*region2 | da bomb, 6 | 1 | 1.0609 | 1.1758 | 0.8141 | 0.3669 |
| item*region2 | da bomb, 7 | 1 | -23.8004 | 177025.517 | 0.0000 | 0.9999 |
| item*region2 | da bomb, 8 | 1 | -23.8004 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | da bomb, 9 | 1 | 0.4855 | 1.2804 | 0.1438 | 0.7046 |
| item*region2 | da bomb, 10 | 1 | -23.8004 | 167941.152 | 0.0000 | 0.9999 |
| item*region2 | da bomb, 11 | 0 | 0.0000 | 0.0000 | . | . |
| item*region2 | mint, 1 | 1 | 25.6719 | 1.3964 | 337.9729 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | mint, 2 | 0 | 24.7556 | 0.0000 | . | . |
| item*region2 | mint, 3 | 1 | -0.0003 | 121837.317 | 0.0000 | 1.0000 |
| item*region2 | mint, 4 | 1 | -0.0003 | 104152.681 | 0.0000 | 1.0000 |
| item*region2 | mint, 5 | 1 | -0.0003 | 153308.595 | 0.0000 | 1.0000 |
| item*region2 | mint, 6 | 1 | -0.0003 | 113225.901 | 0.0000 | 1.0000 |
| item*region2 | mint, 7 | 1 | -0.0003 | 177025.517 | 0.0000 | 1.0000 |
| item*region2 | mint, 8 | 1 | -0.0003 | 216811.094 | 0.0000 | 1.0000 |
| item*region2 | mint, 9 | 1 | -0.0003 | 125175.944 | 0.0000 | 1.0000 |
| item*region2 | mint, 10 | 1 | -0.0003 | 167941.152 | 0.0000 | 1.0000 |
| item*region2 | mint, 11 | 0 | 0.0000 | 0.0000 | . | . |
| item*region2 | primo, 1 | 1 | 25.6720 | 1.3642 | 354.1167 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | primo, 2 | 1 | -0.0002 | 216811.094 | 0.0000 | 1.0000 |
| item*region2 | primo, 3 | 1 | -0.0002 | 121837.317 | 0.0000 | 1.0000 |
| item*region2 | primo, 4 | 1 | 23.8802 | 1.2856 | 345.0343 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | primo, 5 | 1 | 25.2665 | 1.2472 | 410.3980 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | primo, 6 | 1 | 24.8611 | 1.1902 | 436.2860 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | primo, 7 | 1 | -0.0002 | 177025.517 | 0.0000 | 1.0000 |
| item*region2 | primo, 8 | 1 | -0.0002 | 216811.094 | 0.0000 | 1.0000 |
| item*region2 | primo, 9 | 1 | 23.5319 | 1.4731 | 255.1925 | $\mathbf{0 . 0 0 0 1}$ |


| item*region2 | primo, 10 | 0 | 24.1679 | 0.0000 | . | . |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| item*region2 | primo, 11 | 0 | 0.0000 | 0.0000 | . | . |
| item*region2 | radical, 1 | 1 | -0.0001 | 216811.094 | 0.0000 | 1.0000 |
| item*region2 | radical, 2 | 1 | -0.0001 | 216811.094 | 0.0000 | 1.0000 |
| item*region2 | radical, 3 | 1 | 23.4749 | 1.2964 | 327.9089 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | radical, 4 | 1 | 23.1464 | 1.2903 | 321.7741 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | radical, 5 | 1 | 24.7558 | 1.1068 | 500.2853 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | radical, 6 | 1 | 23.3207 | 1.2933 | 325.1521 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | radical, 7 | 1 | 25.6721 | 1.0607 | 585.8276 | $\mathbf{0 . 0 0 0 1}$ |
| item*region2 | radical, 8 | 1 | -0.0001 | 216811.094 | 0.0000 | 1.0000 |
| item*region2 | radical, 9 | 1 | -0.0001 | 125175.944 | 0.0000 | 1.0000 |
| item*region2 | radical, 10 | 0 | 24.9789 | 0.0000 | . | . |
| item*region2 | radical, 11 | 0 | 0.0000 | 0.0000 | . | . |
| item*region2 | ruled, 1 | 1 | 1.2993 | 1.0445 | 1.5475 | 0.2135 |
| item*region2 | ruled, 2 | 1 | -25.0660 | 216811.094 | 0.0000 | 0.9999 |
| item*region2 | ruled, 3 | 1 | -0.0225 | 0.8608 | 0.0007 | 0.9792 |
| item*region2 | ruled, 4 | 1 | 0.0953 | 0.8006 | 0.0142 | 0.9052 |
| item*region2 | ruled, 5 | 1 | -0.3102 | 1.0120 | 0.0939 | 0.7593 |
| item*region2 | ruled, 6 | 1 | -0.2048 | 0.8543 | 0.0575 | 0.8105 |
| item*region2 | ruled, 7 | 1 | 0.0465 | 1.0330 | 0.0020 | 0.9641 |
| item*region2 | ruled, 8 | 1 | -0.3102 | 1.2745 | 0.0592 | 0.8077 |
| item*region2 | ruled, 9 | 1 | -25.0660 | 125175.944 | 0.0000 | 0.9998 |
| item*region2 | ruled, 10 | 1 | -25.0660 | 167941.152 | 0.0000 | 0.9999 |
| item*region2 | ruled, 11 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . |  |

## Great game by Island

Analysis Of Initial Parameter Estimates

| parameter |  | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| intercept | 0 | 0.00 | 0.0000 | . | . |  |
| item | da bomb | 1 | -2.8904 | 0.5932 | 23.7437 | 0.0001 |
| item | mint | 1 | -26.3653 | 0.5869 | 2018.1166 | 0.0001 |
| item | primo | 1 | -3.3142 | 0.7198 | 21.1969 | 0.0001 |
| item | radical | 1 | -2.3418 | 0.4682 | 25.0150 | 0.0001 |
| item | ruled | 1 | -2.1401 | 0.4316 | 24.5867 | 0.0001 |
| item*island | da bomb, 1 | 1 | 1.7774 | 0.6400 | 7.7122 | $\mathbf{0 . 0 0 5 5}$ |
| item*island | da bomb, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | mint, 1 | 0 | 22.9641 | 0.0000 | . | . |
| item*island | mint, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | primo, 1 | 1 | 1.4971 | 0.7795 | 3.6888 | 0.0548 |
| item*island | primo, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | radical, 1 | 1 | -0.5261 | 0.6562 | 0.6428 | 0.4227 |
| item*island | radical, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | ruled, 1 | 1 | 0.7804 | 0.5024 | 2.4130 | 0.1203 |
| item*island | ruled, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . |  |

## Great game by Catholic

Analysis Of Initial Parameter Estimates

| parameter |  | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| intercept | 0 | 0.00 | 0.0000 | . | . |  |
| item | da bomb | 1 | -1.4663 | 0.6405 | 5.2410 | 0.0221 |
| item | mint | 1 | -24.3653 | 0.5841 | 1740.2204 | 0.0001 |
| item | primo | 1 | -1.4663 | 0.6405 | 5.2410 | 0.0221 |
| item | radical | 1 | -2.7081 | 1.0328 | 6.8752 | 0.0087 |
| item | ruled | 1 | -1.9459 | 0.7559 | 6.6265 | 0.0100 |
| item*catholic | da bomb, 1 | 1 | -0.1340 | 0.6818 | 0.0386 | 0.8442 |
| item*catholic | da bomb, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*catholic | mint, 1 | 0 | 20.6119 | 0.0000 | . | . |
| item* catholic | mint, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*catholic | primo, 1 | 1 | -0.8279 | 0.7085 | 1.3653 | 0.2426 |
| item*catholic | primo, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*catholic | radical, 1 | 1 | 0.1013 | 1.0890 | 0.0086 | 0.9259 |
| item*catholic | radical, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*catholic | ruled, 1 | 1 | 0.3456 | 0.7912 | 0.1908 | 0.6623 |
| item*catholic | ruled 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . |  |

## Great game by Urban/Rural

Analysis Of Initial Parameter Estimates

| parameter |  | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| intercept | 0 | 0.00 | 0.0000 | . | . |  |
| item | da bomb | 1 | -1.3652 | 0.3234 | 17.8175 | 0.0001 |
| item | mint | 1 | -26.3653 | 0.5877 | 2012.6446 | 0.0001 |
| item | primo | 1 | -3.3499 | 0.7194 | 21.6829 | 0.0001 |
| item | radical | 1 | -2.9267 | 0.5926 | 24.3908 | 0.0001 |
| item | ruled | 1 | -1.7148 | 0.3621 | 22.4278 | 0.0001 |
| item*urb_rur | da bomb, 1 | 1 | -0.2724 | 0.4358 | 0.3906 | 0.5320 |
| item*urb_rur | da bomb, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | mint, 1 | 0 | 23.0451 | 0.0000 | . | . |
| item*urb_rur | mint, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | primo, 1 | 1 | 1.5307 | 0.7838 | 3.8138 | 0.0508 |
| item*urb_rur | primo, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | radical, 1 | 1 | 0.3365 | 0.7283 | 0.2135 | 0.6441 |
| item*urb_rur | radical, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*urb_rur | ruled, 1 | 1 | 0.0772 | 0.4652 | 0.0275 | 0.8682 |
| item*urb_rur | ruled 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . |  |

Great game by Decile and Main Region, Model 2 (no sig. figs. Model 1)
Analysis Of Initial Parameter Estimates

| parameter |  | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| intercept | 0 | 0.00 | 0.0000 | . | . |  |
| item | da bomb | 1 | -2.3862 | 1.1412 | 4.3719 | 0.0365 |
| item | mint | 1 | -25.0499 | 1.0876 | 530.5072 | 0.0001 |
| item | primo | 1 | -25.0989 | 0.6917 | 1316.5675 | 0.0001 |
| item | radical | 1 | -27.1432 | 1.0125 | 718.7049 | 0.0001 |
| item | ruled | 1 | -1.7899 | 0.8344 | 4.6021 | 0.0319 |
| item*region1 | da bomb, 1 | 1 | 1.6837 | 1.0796 | 2.4322 | 0.1189 |
| item*region1 | da bomb, 2 | 1 | 0.2692 | 1.1126 | 0.0585 | 0.8088 |
| item*region1 | da bomb, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | mint, 1 | 0 | 23.2510 | 0.0000 | . | . |
| item*region1 | mint, 2 | 1 | 0.1947 | 58551.0952 | 0.0000 | 1.0000 |
| item*region1 | mint, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | primo, 1 | 1 | 23.5602 | 0.6583 | 1280.7982 | $\mathbf{0 . 0 0 0 1}$ |
| item*region1 | primo, 2 | 0 | 24.6318 | 0.0000 | . | . |
| item*region1 | primo, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | radical, 1 | 1 | 23.1519 | 0.8316 | 775.0449 | $\mathbf{0 . 0 0 0 1}$ |
| item*region1 | radical, 2 | 0 | 24.1161 | 0.0000 | . | . |
| item*region1 | radical, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ruled, 1 | 1 | 0.1537 | 0.7310 | 0.0442 | 0.8335 |
| item*region1 | ruled, 2 | 1 | -0.7935 | 0.7467 | 1.1291 | 0.2880 |
| item*region1 | ruled, 3 | 0 | 0.0000 | 0.0000 | . | . |


| decile*item | da bomb | 1 | -0.0315 | 0.0851 | 0.1367 | 0.7116 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| decile*item | mint | 1 | -0.2653 | 0.2666 | 0.9906 | 0.3196 |
| decile*item | primo | 1 | -0.2500 | 0.1152 | 4.7094 | $\mathbf{0 . 0 3 0 0}$ |
| decile*item | radical | 1 | 0.1267 | 0.1325 | 0.9139 | 0.3391 |
| decile*item | ruled | 1 | 0.0822 | 0.0842 | 0.9533 | 0.3289 |
| scale | 0 | 1.00 | 0.0000 | . | . |  |

Great game in Northern and Central Regions only
Analysis Of Initial Parameter Estimates

| parameter |  | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| intercept | 0 | 0.00 | 0.0000 | . | . |  |
| item | da bomb | 1 | -2.3168 | 0.3962 | 34.2001 | 0.0001 |
| item | mint | 1 | -26.3653 | 0.5932 | 1975.6300 | 0.0001 |
| item | primo | 1 | -1.9169 | 0.3387 | 32.0349 | 0.0001 |
| item | radical | 1 | -2.1691 | 0.3732 | 33.7780 | 0.0001 |
| item | ruled | 1 | -2.0369 | 0.3544 | 33.0315 | 0.0001 |
| item*region1 | da bomb, 1 | 1 | 1.4611 | 0.4907 | 8.8668 | $\mathbf{0 . 0 0 2 9}$ |
| item*region1 | da bomb, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | mint, 1 | 0 | 23.4749 | 0.0000 | . | . |
| item*region1 | mint, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | primo, 1 | 1 | -0.6671 | 0.6193 | 1.1601 | 0.2814 |
| item*region1 | primo, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | radical, 1 | 1 | -1.1451 | 0.8108 | 1.9945 | 0.1579 |
| item*region1 | radical, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ruled, 1 | 1 | 0.8176 | 0.4746 | 2.9679 | 0.0849 |
| item*region1 | ruled, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . |  |

Great game by Main Region and Island, Model 2 (no sig. figs. Model 1)
Analysis Of Initial Parameter Estimates

| parameter |  | DF | Estimate | Std Err | ChiSquare | Pr>Chi |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| intercept | 0 | 0.00 | 0.0000 | . | . |  |
| item | da bomb | 1 | -2.5649 | 1.0377 | 6.1090 | 0.0134 |
| item | mint | 1 | -26.3653 | 0.5932 | 1975.6250 | 0.0001 |
| item | primo | 1 | -26.3652 | 0.7241 | 1325.5824 | 0.0001 |
| item | radical | 1 | -26.3652 | 0.4757 | 3071.4834 | 0.0001 |
| item | ruled | 1 | -1.2993 | 0.6513 | 3.9792 | 0.0461 |
| item*region1 | da bomb, 1 | 1 | 0.4806 | 1.3851 | 0.1204 | 0.7286 |
| item*region1 | da bomb, 2 | 1 | -0.4555 | 1.2654 | 0.1296 | 0.7189 |
| item*region1 | da bomb, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | mint, 1 | 0 | 23.4749 | 0.0000 | . | . |
| item*region1 | mint, 2 | 1 | -0.0001 | 60132.5783 | 0.0000 | 1.0000 |
| item*region1 | mint, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | primo, 1 | 1 | 21.9771 | 0.6564 | 1120.8853 | $\mathbf{0 . 0 0 0 1}$ |
| item*region1 | primo, 2 | 0 | 23.3448 | 0.0000 | . | . |


| item*region1 | primo, 3 | 0 | 0.0000 | 0.0000 | . | . |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| item*region1 | radical, 1 | 1 | 23.3900 | 0.9396 | 619.7490 | $\mathbf{0 . 0 0 0 1}$ |
| item*region1 | radical, 2 | 0 | 24.3371 | 0.0000 | . | . |
| item*region1 | radical, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*region1 | ruled, 1 | 1 | -0.9347 | 1.0409 | 0.8064 | 0.3692 |
| item*region1 | ruled, 2 | 1 | -1.2910 | 0.8846 | 2.1297 | 0.1445 |
| item*region1 | ruled, 3 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | da bomb, 1 | 1 | 1.2287 | 0.8705 | 1.9923 | 0.1581 |
| item*island | da bomb, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | mint, 1 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | mint, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | primo, 1 | 1 | 1.8040 | 0.8285 | 4.7412 | $\mathbf{0 . 0 2 9 4}$ |
| item*island | primo, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | radical, 1 | 1 | -0.3390 | 0.7687 | 0.1945 | 0.6592 |
| item*island | radical, 2 | 0 | 0.0000 | 0.0000 | . | . |
| item*island | ruled, 1 | 1 | 1.0147 | 0.7480 | 1.8404 | 0.1749 |
| item*island | ruled, 2 | 0 | 0.0000 | 0.0000 | . | . |
| scale | 0 | 1.00 | 0.0000 | . | . |  |

## CONTRAST Statement Results

| Contrast | DF | ChiSquare | Pr>Chi | Type |
| :--- | :--- | :--- | :--- | :--- |
| $1-2$ for da bomb | 1 | 3.0375 | 0.0814 | LR |

