

14-5 Item Analysis Report of Final Reading Test, Form C

I) Response Distribution: Anomalies

Level One

Question #	% Correct	Comments
1	100%	
7	0%	Correct answer D – 1 B and 6 Cs
11	100%	
21	0%	
26	0%	
28, 29, 30, 31, 32, 33	0%	
35, 36, 37	0%	
39	0%	
41, 42	0%	
44	0%	

Level Two

Question #	% Correct	Comments
1	10% incorrect	Question is probably okay
11	100%	
21	0%	
41	5%	1 response

Level Three

Question #	% Correct	Comments
1	87%	
11	100%	
21	0%	
41	0%	

Level Four

Question #	% Correct	Comments
1	93%	
3	100%	
11	98.3%	
21	1.7%	
41	5%	

Level Five

Question #	% Correct	Comments
1	92.3%	
3	98.1%	
11	100%	
21	2%	
28	100%	
41	3.8%	

Level Six

Question #	% Correct	Comments
1	100%	
2	100%	
3	100%	
5	100%	
6	100%	
11	100%	
16	100%	
22	100%	
28	95.7%	
41	2.2%	

All Test Takers:

Question #	% Correct	Comments
11	100%	215/215
41	3.26%	7/215

II) Conclusion

The committee needs to reexamine these two items on the test.

III) Trends

Statistically, this is our best test form so far. Clear level differences are apparent in the means, medians, and modes. In addition, students in level six did significantly better on the first part of the test than did students in level five, indicating that basic reading skills are being firmed up. Appropriately, level one students earned correct answers on only a few items.

IV) Conversions

Form C Level VI

Highest Possible Score = 45

Highest Score Achieved = 42

Let 44 = “Perfect” 100%

Divide the scores by 44 to determine percentages.

Item Analysis Level IV Form C

Mean	35.0217	C+
Median	36	B-
Mode	37	B

Level VI Form C Conversion

Letter	Raw Number	Number of students	Total students by letter grade	Total students by combined letter grade
A+	45	0	0	7
A+	44	0		
A+	43	0		
A	42	1	4	
A	41	3		
A-	40	3	3	
B+	39	2	2	
B	38	4	12	
B	37	8		
B-	36	2	2	
C+	35	6	6	17
C	34	4	6	
C	33	2		
C-	32	3	5	
C-	31	2		
D+	30	1	1	1
D	29	0	0	
D	28	0		
D-	27	0	0	
F	26 or less	2	2	2

Item Analysis Level V Form C

Mean	33.4423	B-
Median	34	B
Mode	34	B

Level V Form C Conversion

Letter	Raw Number	Number of students	Total students by letter grade	Total students by combined letter grade
A+	40	2	2	13
A	39	6	8	
A	38	2		
A-	37	3	3	
B+	36	5	5	22
B	35	5	12	
B	34	7		
B-	33	5	5	
C+	32	3	3	8
C	31	2	2	
C-	30	0	3	
C-	29	3		
D+	28	4	4	7
D	27	2	2	
D-	26	0	1	
D-	25	1		
F	24 or less	2	2	2

Item Analysis Conversion Level IV Form C

Mean	31.66	B-
Median	33	B
Mode	33	B

Raw Score Conversion to Letter Grade Level IV Form C

Raw Score	Score	Grade	Number of students	Total students by letter grade	Total students by combined letter grade
38 or higher		A+	8	8	17
37	95	A	5	5	
36	92.52	A-	4	4	
35	89.95	B+	4	4	17
34	98.38	B	4	11	
33	84.81	B	7		
32	82.24	B-	2	2	
31	79.67	C+	4	4	12
30	77.1	C	3	7	
29	74.53	C	4		
28	71.96	C-	1	1	
27	69.39	D+	2	2	10
26	66.82	D	2	4	
25	64.25	D	2		
24	61.68	D-	4	4	
23 or less	59.11	F	4	4	4

Notes: Highest level IV Score = Highest level VI score. Median level IV was 33 vs. 34 for level V. Median for level IV=Mean for level V. Therefore, let a score of A in level V (38) = a score of A+ in level IV. Let 38 be converted to 98 by dividing it by 2.57. Let the conversion multiplier for level IV=2.47.

Item Analysis Conversion Level III Form C

Mean	28.9	C+
Median	29	C+
Mode	29	C+

Raw Score Conversion to Letter Grade Level III Form C

Raw Score	Score	Grade	Total number of students	Total students by letter grade	Total students by combined letter grade
36 or higher		A+	3	3	8
35	95.2	A	2	2	
34	92.48	A-	3	3	
33	89.76	B+	3	3	7
32	87	B	2	3	
31	84.32	B	1		
30	81.6	B-	1	1	
29	78.88	C+	4	4	6
28	76.16	C	1	2	
27	73.44	C	1		
26	70.72	C-	0	0	
25	68	D+	2	2	5
24	65.28	D	2	2	
23	62.56	D-	1	1	
22 or less	59.84	F	5	5	5

Notes: The highest score in level III was 39, which would be an A+ in level IV. The next highest score is 36, which would earn an A- in level IV. Since the means and medians of level three are significantly lower than those in level four, let 36=98. Let the multiplier = 2.72.

Item Analysis Conversion Level II Form C

Mean	24	C
Median	26	B-

Raw Score Conversion to Letter Grade Level II Form C

Raw Score	Score	Grade	Total number of students	Comments
32 or higher		A+	4	
31	96	A	1	
30	93	A	2	35% of students scored A- or higher
29	89.9	A-	0	
28	86.8	B+	1	88 – we need a score for this slot
27	83.7	B	1	
26	80.6	B-	1	median
25	77.5	C+	0	
24	74.4	C	0	mean
23	71.3	C-	0	
22	68.2	D+	0	
21	65.1	D	2	Quadruple mode – insignificant
20	62	D-	0	
19 and less	58.9	F	7	35% of students at this level failed.

Notes: The median score for level II 26, and the mean score is 24. Let 24=C or 75. Let the multiplier be 3.1.

Item Analysis Conversion Level I Form C

Mean	11.4	D+
Median	9	D-

Raw Score Conversion to Letter Grade Level I Form C

Raw Score	Grade	Total number of students	Total students by combined letter grade
20	A+	1 (14%)	1
19	A		
18	A-		
17	B+		1
16	B	1 (14%)	
15	B-		
14	C+	1 (14%)	1
13	C		
12	C-		
11	D+		1
10	D		
9	D-	1 (14%)	
8 and below	F	3 (42%)	3

Notes: If the highest score, 21, is treated as a perfect score: And we find slots for all the grades, the mean (11.4) is roughly halfway between a D+ and a C-. The median score is a D-. No modes.

V) Conversion Charts

Level Six

45	A+
44	A+
43	A+
42	A
41	A
40	A-
39	B+
38	B
37	B
36	B-
35	C+
34	C
33	C
32	C-
31	C-
30	D+
29	D
28	D
27	D
26 and below	F

Level Five

40	A+
39	A
38	A
37	A-
36	B+
35	B
34	B
33	B-
32	C+
31	C
30	C-
29	C-
28	D+
27	D
26	D-
25	D-
24 and below	F

Level Four

38 or higher	A+
37	A
36	A-
35	B+
34	B
33	B
32	B-
31	C+
30	C
29	C
28	C-
27	D+
26	D
25	D
24	D-
23	F

Level Three

36 or higher	A+
35	A
34	A-
33	B+
32	B
31	B
30	B-
29	C+
28	C
27	C
26	C-
25	D+
24	D
23	D-
22 and below	F

Level Two

32 or higher	A+
31	A
30	A
29	A-
28	B+
27	B
26	B-
25	C+
24	C
23	C-
22	D+
21	D
20	D-
19 and below	F

Level One

20	A+
19	A
18	A-
17	B+
16	B
15	B-
14	C+
13	C
12	C-
11	D+
10	D
9	D-
8 and below	F