



Arkansas Comprehensive Testing, Assessment, and Accountability Program

**Grade 11 Literacy Examination  
Raw to Scale Score Conversion Tables  
March 2013 Administration**

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## **Introduction**

The Raw to Scale Score Conversion Tables provide information on raw scores attained by students for the *Grade 11 Literacy Examination* and how those scores correspond with student scale scores.

**The attached Raw to Scale Score Conversion Tables are specific to the March 2013 administration of the *Grade 11 Literacy Examination* and do NOT apply to any other administration.**

## **What are Scale Scores?**

Scale Scores are transformed raw scores. For every possible raw score on a test form, there is a corresponding scale score, although a scale score may represent more than one raw score depending on the distribution of the results. When multiple forms of a test are used, or when results are compared from year to year, scale scores are needed to adjust for possible differences in test form length or difficulty. For example, it would not be possible to interpret a raw score of 50 items correct or points earned without knowing how many items are on the test and how difficult those items are.

## **Why Use Scale Scores?**

Scale scores provide a useful measurement tool for many assessment programs. They are used in numerous national testing programs, including the ACT and SAT examinations, which are typically part of the admissions process for colleges and universities. Scale scores are also routinely used in many other statewide testing programs, providing the basis for long-term, meaningful comparisons of student results across different test administrations.

Educators have always adjusted for differences in test length by changing from “number correct” scores to “percent correct” scores. The next step is to remove differences in item difficulty by moving to “scale scores.” To illustrate the value of this step, consider an examination with just two forms: Form A and Form B. If the items on Form A happen to be slightly more difficult than the items on Form B, one would expect a student to answer a higher percentage of items correctly if Form B were administered rather than Form A. However, a student should receive the same scale score for either form.

Scale scores are intended to make scores more meaningful by defining a scale of measurement that is not tied to a particular form of a test. However, to be meaningful, the scale must be tied to a benchmark that is meaningful to the user. The *Grade 11 Literacy Examination* was constructed so that a specific score corresponds to the advanced, proficient, basic, and below basic performance levels. In the future, these values may correspond to different raw scores, but they will have the same meaning in terms of student performance.

## March 2013 Scale Scores

The attached Raw to Scale Score Conversion Tables list the total number of raw score points available for Grade 11 Literacy as well as the associated scale scores.

The table below lists the performance levels and associated scale scores ranges for the *Grade 11 Literacy Examination*. **Again, the scale score information listed in this table is specific to the March 2013 administration of the *Grade 11 Literacy Examination* and does NOT apply to any other administration.**

### 2013 Grade 11 Literacy Examination Scale Score Ranges

Performance Levels	Grade 11 Literacy Scale Scores
Below Basic	0–168
Basic	169–199
Proficient	200–227
Advanced	228 and above*

The Grade 11 Literacy Report Interpretation Guide contains more information on the development of the performance levels. For additional information about the results and information on student performance, please contact:

Office of Student Assessment  
Arkansas Department of Education  
Four Capitol Mall, Room 305B  
Little Rock, AR 72201-1071  
Telephone: 501-682-4558

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\* The Advanced rating for scale scores of 228–249 is pending peer review and approval from the U.S. Department of Education.



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2013 Grade 11 Literacy Examination Raw to Scale Score Conversion Tables

BELOW BASIC					
Raw Score	Scale Score	Raw Score	Scale Score	Raw Score	Scale Score
0	45	31	135	62	152
1	71	32	136	63	152
2	85	33	136	64	153
3	93	34	137	65	154
4	99	35	138	66	154
5	103	36	138	67	155
6	106	37	139	68	155
7	109	38	139	69	156
8	111	39	140	70	156
9	113	40	140	71	157
10	115	41	141	72	157
11	117	42	141	73	158
12	118	43	142	74	158
13	120	44	143	75	159
14	121	45	143	76	160
15	122	46	144	77	160
16	123	47	144	78	161
17	124	48	145	79	161
18	125	49	145	80	162
19	126	50	146	81	162
20	127	51	146	82	163
21	128	52	147	83	164
22	129	53	147	84	164
23	130	54	148	85	165
24	130	55	148	86	165
25	131	56	149	87	166
26	132	57	149	88	167
27	132	58	150	89	167
28	133	59	150	90	168
29	134	60	151		
30	134	61	151		

BASIC			
Raw Score	Scale Score	Raw Score	Scale Score
91	169	117	184
92	169	118	185
93	170	119	185
94	170	120	186
95	171	121	187
96	171	122	187
97	172	123	188
98	173	124	189
99	173	125	189
100	174	126	190
101	174	127	190
102	175	128	191
103	176	129	192
104	176	130	192
105	177	131	193
106	177	132	194
107	178	133	194
108	179	134	195
109	179	135	196
110	180	136	196
111	181	137	197
112	181	138	198
113	182	139	198
114	182	140	199
115	183	141	199
116	184		

PROFICIENT	
Raw Score	Scale Score
142	200
143	201
144	202
145	202
146	203
147	204
148	205
149	205
150	206
151	207
152	208
153	208
154	209
155	210
156	211
157	212
158	213
159	214
160	214
161	215
162	216
163	217
164	218
165	219
166	220
167	222
168	223
169	224
170	225
171	227

ADVANCED*	
Raw Score	Scale Score
172	228
173	229
174	231
175	232
176	234
177	236
178	238
179	240
180	242
181	244
182	246
183	249
184	252
185	255
186	259
187	263
188	269
189	275
190	284
191	300
192	326

\* The Advanced rating for scale scores of 228-249 is pending peer review and approval from the U.S. Department of Education.