



Arkansas Comprehensive Testing, Assessment and Accountability Program

Geometry Mid-Year End-of-Course Examination Raw To Scale Score Conversion Table

January 2006 Administration

Introduction

The *Raw to Scale Score Conversion Table* provides information on raw scores attained by students for Geometry on the *Geometry Mid-Year End-of-Course Examination*, and how those scores correspond with student scale scores.

The attached *Raw to Scale Score Conversion Table* is specific to the January 2006 administration of the *Geometry Mid-Year End-of-Course Examination* and does 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 *Geometry Mid-Year End-of-Course Examination* was constructed so that a scale score of 250 corresponds to the *Advanced* performance level, a scale score of 200 corresponds to the *Proficient* performance level, and a scale score of 154 corresponds to the *Basic* performance level.

January 2006 Scale Scores

The attached *Raw to Scale Score Conversion Table* lists the total number of raw score points available for Geometry as well as the associated scale score for each raw score point.

The table below contains the performance levels and associated scale scores for the *Geometry Mid-Year End-of-Course Examination*. **Again, the scale score information listed in this table is specific to the January 2006 administration of the *Geometry Mid-Year End-of-Course Examination* and cannot be used for any other administration of this test.**

Scale Scores and Performance Levels for the Geometry Mid-Year End-of-Course Examination

Performance Levels	Scale Score Ranges
Below Basic	0 – 153
Basic	154 – 199
Proficient	200 – 249
Advanced	250+

The *Geometry Mid-Year End-of-Course Examination 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:

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Arkansas Geometry Mid-Year End-of-Course Examination

January 2006

Raw to Scale Score Conversion Tables for Mid-Year Geometry

Raw Score	Scale Score	Raw Score	Scale Score	Raw Score	Scale Score
0	0	34	166	68	232
1	8	35	169	69	234
2	15	36	171	70	236
3	23	37	173	71	238
4	38	38	175	72	240
5	49	39	178	73	242
6	58	40	180	74	244
7	66	41	182	75	246
8	73	42	184	76	248
9	80	43	186	77	250
10	86	44	188	78	253
11	91	45	190	79	255
12	96	46	192	80	258
13	101	47	194	81	260
14	105	48	195	82	263
15	110	49	197	83	265
16	114	50	200	84	268
17	117	51	201	85	271
18	121	52	203	86	274
19	125	53	204	87	277
20	128	54	206	88	280
21	131	55	208	89	283
22	134	56	210	90	286
23	137	57	212	91	290
24	140	58	213	92	294
25	143	59	215	93	298
26	146	60	217	94	303
27	149	61	219	95	309
28	152	62	221	96	317
29	154	63	222	97	327
30	157	64	224	98	342
31	159	65	226	99	371
32	162	66	228	100	423
33	164	67	230		

