

Kentucky Kindergarten Screen Composite Score Calculation

The Brigance Screen III is used as part of the Kindergarten Screening process in Kentucky. The screener is administered at the beginning of each new school year to provide a better understanding of kindergarten readiness in local communities. The composite score is a result of completing the Kindergarten Screening process. This information helps in understanding how a kindergarten student scores one of three possible outcomes. Those outcomes are: Ready with Interventions, Ready and Ready with Enrichments.

After completing the Assessment portion of the screening process, a district will input the data into the [Online Management System \(OMS\)](#) which automatically calculates the total raw score and composite score. Screening proctors can also calculate the raw score manually on the Core Assessment III Data Collection Sheet.

The first step in calculating the composite score is to record the number of correct responses to screening prompts on the Core Assessment data sheet across the five skill areas found in Table 1. The recorded points are multiplied by the point value for each portion of the screening. The points are added into one sum from 0-100 which is the total score. The total score from the Core Assessment data sheet can be used to calculate the composite score found on Table 2. Table 1

Skill Area	Five-Year-Old/ Kindergarten Core Assessment
Gross Motor Skills	Examples: Stands on one foot for one second with eyes closed; Walks backward toe-to-heel four steps Assessments: 3C/3A
Fine Motor Skills	Examples: Draws a triangle; Prints first name Assessments: 4C/4A, 5C/5A
Expressive Language Skills	Examples: Knows names of body parts (e.g., shoulders); Uses sentences of at least five words Assessments: 2C/2A, 13C/13A
Literacy Skills	Examples: Reads uppercase letters; Knows the front and back of a book Assessments: 1C/1A, 6C/6A, 11C/11A, 12C/12A
Mathematical Concepts	Examples: Sorts objects by size and color; Counts two groups of objects for a sum of ten Assessments: 7C/7A, 8C/8A, 9C/9A, 10C/10A

The total score is taken and compared with the information in Table 2 to determine the appropriate composite score. More information on the composite score calculation can be found in the [Brigance Screen III Technical Manual](#).

Table 2

Composite Scores for Brigance Core Assessment III								
Total Raw Score	Age (years-months)		Total Raw Score	Age (years-months)		Total Raw Score	Age (years-months)	
	5.0-5.5	5.6-5.11		5.0-5.5	5.6-5.11		5.0-5.5	5.6-5.11
0	<64	<64	34	73	<64	68	92	81
1	<64	<64	35	74	<64	69	93	82
2	<64	<64	36	74	<64	70	93	82
3	<64	<64	37	74	<64	71	93	83
4	<64	<64	38	74	<64	72	95	85
5	<64	<64	39	74	<64	73	95	85
6	<64	<64	40	74	<64	74	96	85
7	<64	<64	41	74	64	75	96	86
8	<64	<64	42	74	65	76	97	87
9	<64	<64	43	75	65	77	98	88
10	<64	<64	44	76	66	78	99	88
11	<64	<64	45	77	67	79	99	89
12	<64	<64	46	77	67	80	100	90
13	<64	<64	47	78	68	81	101	91
14	<64	<64	48	79	68	82	102	92
15	<64	<64	49	80	69	83	103	93
16	<64	<64	50	80	70	84	105	94
17	64	<64	51	81	71	85	105	95
18	65	<64	52	81	72	86	107	97
19	65	<64	53	82	72	87	108	98
20	66	<64	54	83	73	88	110	100
21	67	<64	55	83	73	89	112	101
22	67	<64	56	84	74	90	114	104
23	68	<64	57	84	74	91	116	106
24	69	<64	58	85	75	92	118	108
25	70	<64	59	86	76	93	119	109
26	70	<64	60	87	77	94	121	111
27	70	<64	61	88	78	95	124	113
28	70	<64	62	89	78	96	127	117
29	71	<64	63	89	79	97	129	119
30	71	<64	64	89	79	98	130	121
31	72	<64	65	90	80	99	>130	125
32	72	<64	66	90	80	100	>130	130
33	73	<64	67	91	81			

Once the composite score has been calculated the cut off scores will determine the outcome of the Core Screen III assessment for the student. Table 3, Table 4 and 5 show the different age-related composite score cut offs.

Table 3

Cutoff Scores for Detecting Children Who Scored Ready with Interventions		
Core Assessment	Age in Years and Months	Cutoff
Five-Year-Old /Kindergarten	5-0 Through 5-5	<61
	5-6 Through 5-11	<70

Table 4

Cutoff Scores for Detecting Children Who Scored Ready		
Core Assessment	Age in Years and Months	Cutoff
Five-Year-Old /Kindergarten	5-0 Through 5-5	[61, 88]
	5-6 Through 5-11	[70, 91]

Table 5

Cutoff Scores for Detecting Children Who Scored Ready with Enrichments		
Core Assessment	Age in Years and Months	Cutoff
Five-Year-Old /Kindergarten	5-0 Through 5-5	>88
	5-6 Through 5-11	>91