

Iowa Assessments Profile Report: College Readiness

Iowa Graduating Class 2013



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Part 1: Results for the Iowa Assessments

Table 1: Summary Statistics for Grade 11 Students on Iowa Assessment Tests

	Overall		
Content Area	Mean	SD	N
Reading	291.25	39.72	35741
Written Expression	293.14	39.15	21344
Math	291.72	32.87	35740
Science	299.00	38.22	35683

Table 1 shows the means, standard deviations, and sample sizes for scores on the Grade 11 Iowa Assessments.

Table 2: Summary Statistics for Grade 11 Students on Iowa Assessment Tests by Gender

	Female			Male		
Content Area	Mean	SD	N	Mean	SD	N
Reading	295.88	37.66	17569	286.76	41.13	18172
Written Expression	300.18	36.39	10412	286.43	40.48	10932
Math	290.18	31.72	17569	293.22	33.89	18171
Science	299.30	36.46	17540	298.71	39.84	18143

Table 2 shows the means, standard deviations, and sample sizes for scores on the Grade 11 Iowa Assessments by gender.

Table 3: Summary Statistics for Grade 11 Students on Iowa Assessment Tests by Race

Content Area	Asian			Black / African American			Hispanic / Latino			White		
	Mean	SD	N	Mean	SD	N	Mean	SD	N	Mean	SD	N
Reading	285.56	48.76	755	265.50	40.09	1441	271.79	39.33	2436	294.39	38.54	30225
Written Expression	293.32	46.47	374	265.42	41.67	591	271.25	39.53	1018	295.39	38.11	18921
Math	298.37	35.89	762	265.00	30.75	1439	272.98	30.95	2434	294.66	31.86	30222
Science	295.80	44.22	759	267.65	38.76	1429	277.63	37.71	2425	302.58	36.69	30189

Table 3 shows the means, standard deviations, and sample sizes for scores on the Grade 11 Iowa Assessments by race.

Table 4: Summary Statistics for Grade 11 Students on Iowa Assessment Tests for Students in the Free/Reduced Lunch Program (FRL) and Students not in the Program (Non-FRL)

Content Area	FRL			Non-FRL		
	Mean	SD	N	Mean	SD	N
Reading	273.59	39.49	10682	298.77	37.36	25059
Written Expression	273.77	39.41	5534	299.92	36.72	15810
Math	275.57	31.09	10675	298.60	31.16	25065
Science	281.24	38.53	10649	306.56	35.49	25034

Table 4 shows the means, standard deviations, and sample sizes for Grade 11 Iowa Assessments content area scores by FRL (i.e., Students in the Free/reduced lunch program and students not in the Free/reduced lunch program).

Part 2: Comparison of the Iowa Assessments and the ACT

Table 5: Summary Statistics for Grade 11 Iowa Assessment Tests for Students with and without ACT Scores

Iowa Assessment Test	Students with ACT Scores			Students without ACT Scores		
	Mean	SD	N	Mean	SD	N
Reading	306.15	33.20	19269	273.81	39.63	16472
Written Expression	310.15	30.06	11223	274.28	39.41	10121
Math	304.65	28.51	19271	276.60	31.14	16469
Science	312.99	32.41	19264	282.59	37.99	16419

Table 5 shows the means, standard deviations, and sample sizes for scores on the Grade 11 Iowa Assessments, grouped by students who took the ACT and students who did not take the ACT.

Table 6: ACT Summary Statistics for Grade 11 students with Iowa Assessment Scores

ACT Test	Mean	SD	N
Reading	22.41	5.79	19269
English	22.00	5.34	11223
Math	21.58	4.88	19271
Science	22.17	4.72	19264

Table 6 shows the means, standard deviations, and sample sizes of ACT scores.

Table 7: Iowa Assessment Benchmark Scores

	Iowa Assessment Score
Reading	303
English	293
Math	312
Science	321

Table 7 shows the Iowa Assessment Benchmarks.

Table 8 : Correlation between Iowa Assessments and ACT scores

Pearson Correlation Coefficients				
	Iowa Assessment Reading	Iowa Assessment Written Expression	Iowa Assessment Math	Iowa Assessment Science
ACT Reading	0.75			
ACT English		0.79		
ACT Math			0.79	
ACT Science				0.72

Table 8 provides the correlation coefficients for students taking both the ACT and the Iowa Assessments

Table 9: Iowa Assessment Score Distribution for Students who Took the ACT

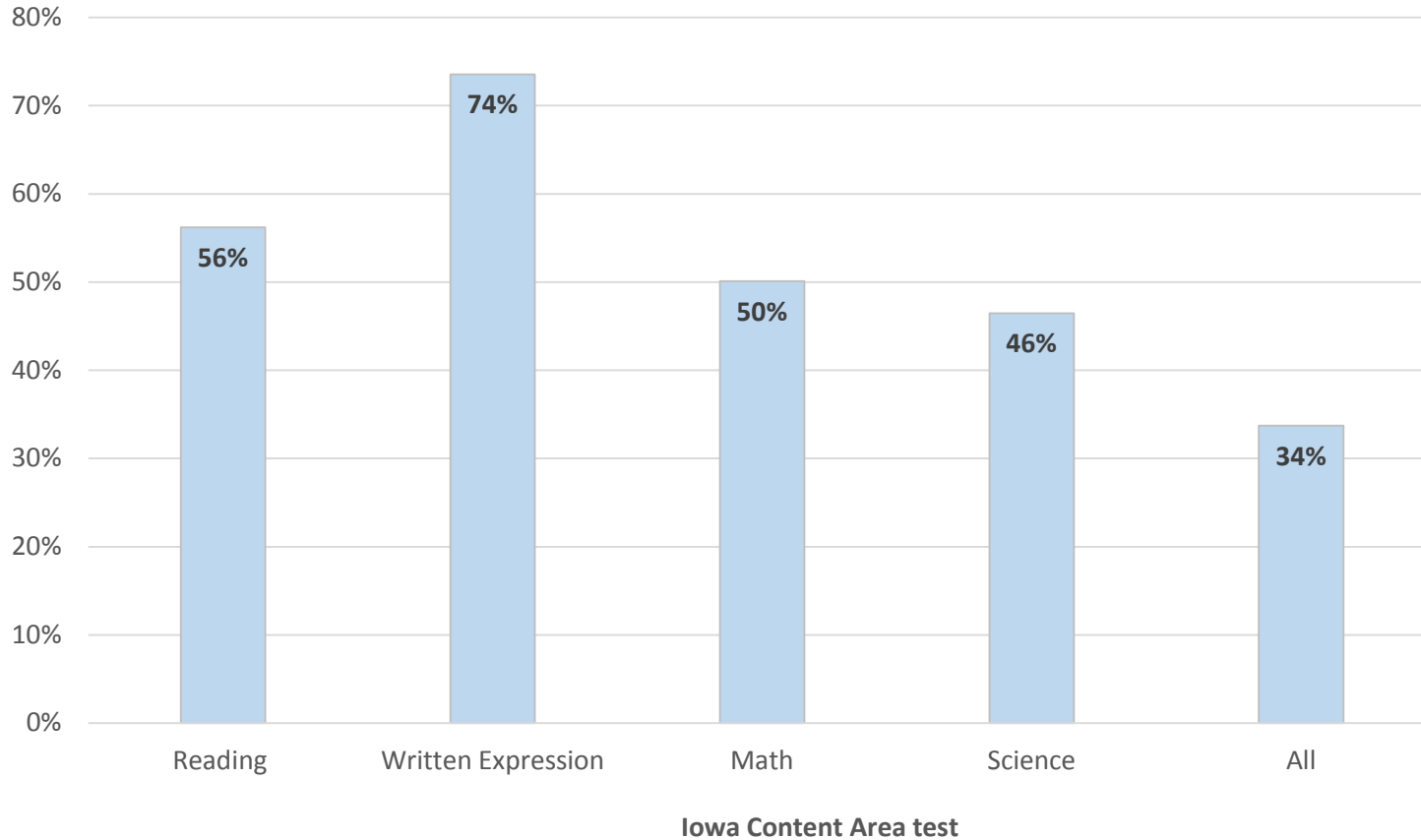
IOWA ASSESSMENT SCORES	WRITTEN EXPRESSION		READING		MATHEMATICS		SCIENCE	
	N	CP	N	CP	N	CP	N	CP
361-Above	23	100	658	100	189	100	656	100
351-360	644	99.8	1231	96.59	213	99.02	2020	96.59
341-350	950	94.06	1593	90.2	662	97.91	1609	86.11
331-340	1826	85.59	0	81.93	2043	94.48	1755	77.76
321-330	1279	69.32	3330	81.93	3369	83.88	2907	68.65
311-320	1147	57.93	1491	64.65	3181	66.4	1919	53.56
301-310	1544	47.71	2528	56.91	2674	49.89	1786	43.59
291-300	1216	33.95	2024	43.79	1635	36.01	2277	34.32
281-290	908	23.11	2314	33.29	775	27.53	1207	22.5
271-280	638	15.02	1952	21.28	1404	23.51	1326	16.24
261-270	421	9.34	1057	11.15	1721	16.22	598	9.35
251-260	192	5.59	318	5.66	727	7.29	466	6.25
241-250	173	3.88	223	4.01	262	3.52	175	3.83
231-240	126	2.33	191	2.85	180	2.16	297	2.92
221-230	42	1.21	72	1.86	109	1.22	82	1.38
211-220	30	0.84	85	1.49	66	0.66	0	0.96
201-210	28	0.57	57	1.05	33	0.32	121	0.96
191-200	9	0.32	49	0.75	19	0.15	25	0.33
181-190	6	0.24	54	0.5	6	0.05	27	0.2
171-180	5	0.12	21	0.22	2	0.02	11	0.06
161-170	5	0.07	20	0.11	1	0.01	0	0
151-160	3	0.03	0	0.01	0	0	0	0
141-150	0	0	1	0.01	0	0	0	0
TOTAL N	11215		19269		19271		19264	
MEAN (SD)	310.15	(30.06)	306.15	(33.20)	304.65	(28.51)	313	(32.41)

Table 9 shows the score distributions of the students who took the Iowa Assessments. The yellow bars highlight the interval that contains the benchmark cut-score for college readiness.

*Intervals containing a college readiness benchmark are displayed using obtainable scores in Table 7.

**Written expression subtest is not required by all districts.

Figure 1: Percent of ACT examinees who met or exceeded the College Readiness benchmarks



Of students who took the corresponding section of the ACT approximately: 56% met the Iowa Assessment Reading benchmark; 74% met the Iowa Assessments Written Expression benchmark; 50% met Iowa Assessments Mathematics benchmark; and 46% met Iowa Assessments Science benchmark. Of students who took all four corresponding sections of the ACT, 34% met all four Iowa Assessment readiness benchmarks.

**Not all students in the state of Iowa complete the Written Expression test.

Iowa Assessments
Reading
Benchmark = 303

Iowa Assessments
Written
Expression
Benchmark = 293**

Iowa Assessments
Math
Benchmark = 312

Iowa Assessments
Science
Benchmark = 321

Part 3: College Readiness Benchmarks for all Iowa Students

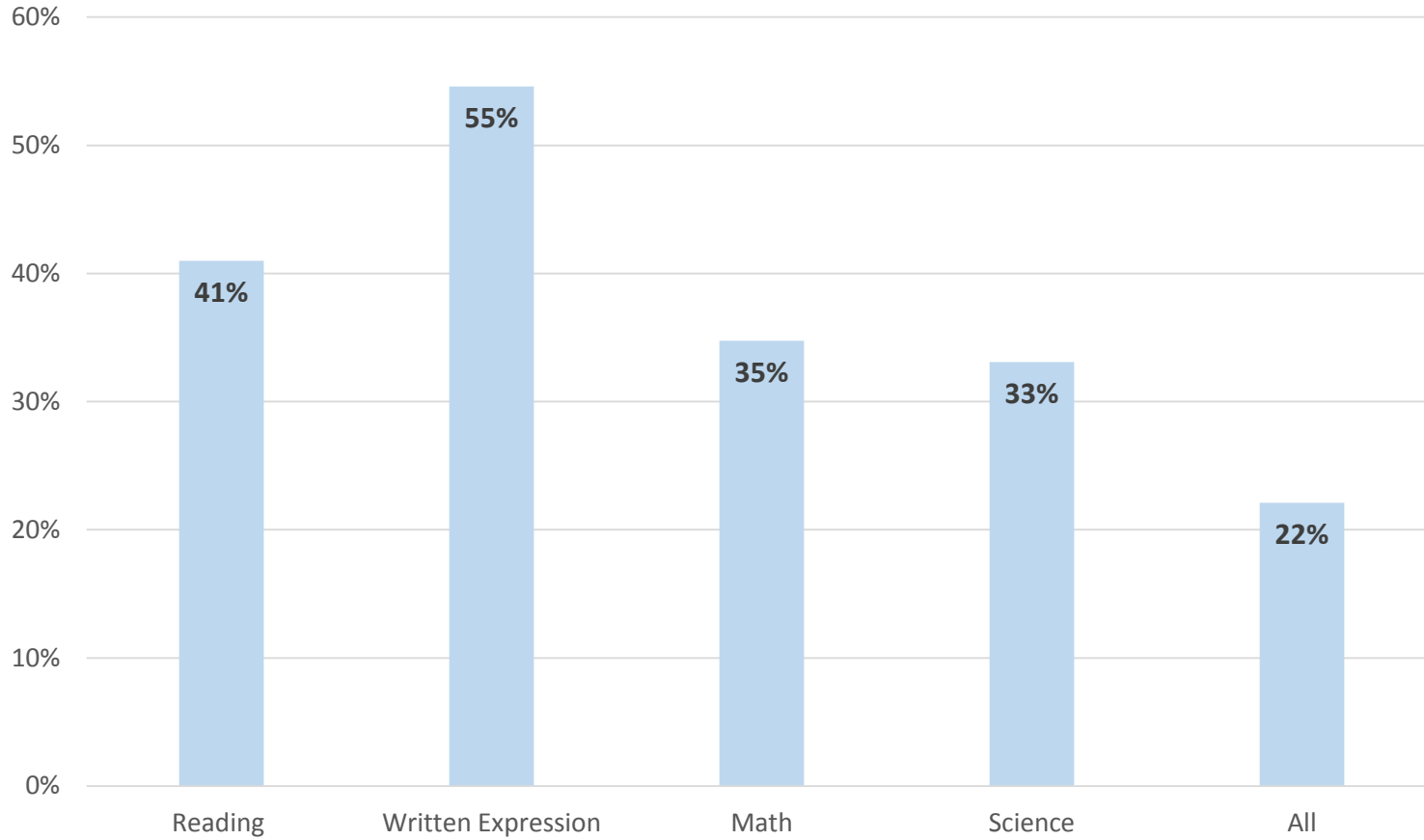
Figure 1 shows the percentage of examinees that met or exceeded the college readiness benchmark score on each of the four Iowa Assessment tests.

Figures 2-9 show the percentage of examinees separated by gender, FRL, and race that met or exceeded the college readiness benchmark score on each of the four Iowa Assessment tests.

Figures 10-11 show the percentage of examinees, separated by the same groupings, that met or exceeded the college readiness benchmark scores on all four of the Iowa Assessment tests.

For the graphs that show performance by race, there are individuals of other ethnicities, such as those of Native American background, that also took the content area tests, but the size of the samples were too small to adequately represent average performance of these ethnic groups.

Figure 2: Percent of All Iowa Students who met or exceeded College Readiness Benchmarks



Iowa Assessments
Reading
Benchmark = 303

Iowa Assessments
Written
Expression
Benchmark = 293

Iowa Assessments
Math
Benchmark = 312

Iowa Assessments
Science
Benchmark = 321

Figure 3: Percent of Iowa Students who met or exceeded College Readiness Benchmarks in Reading

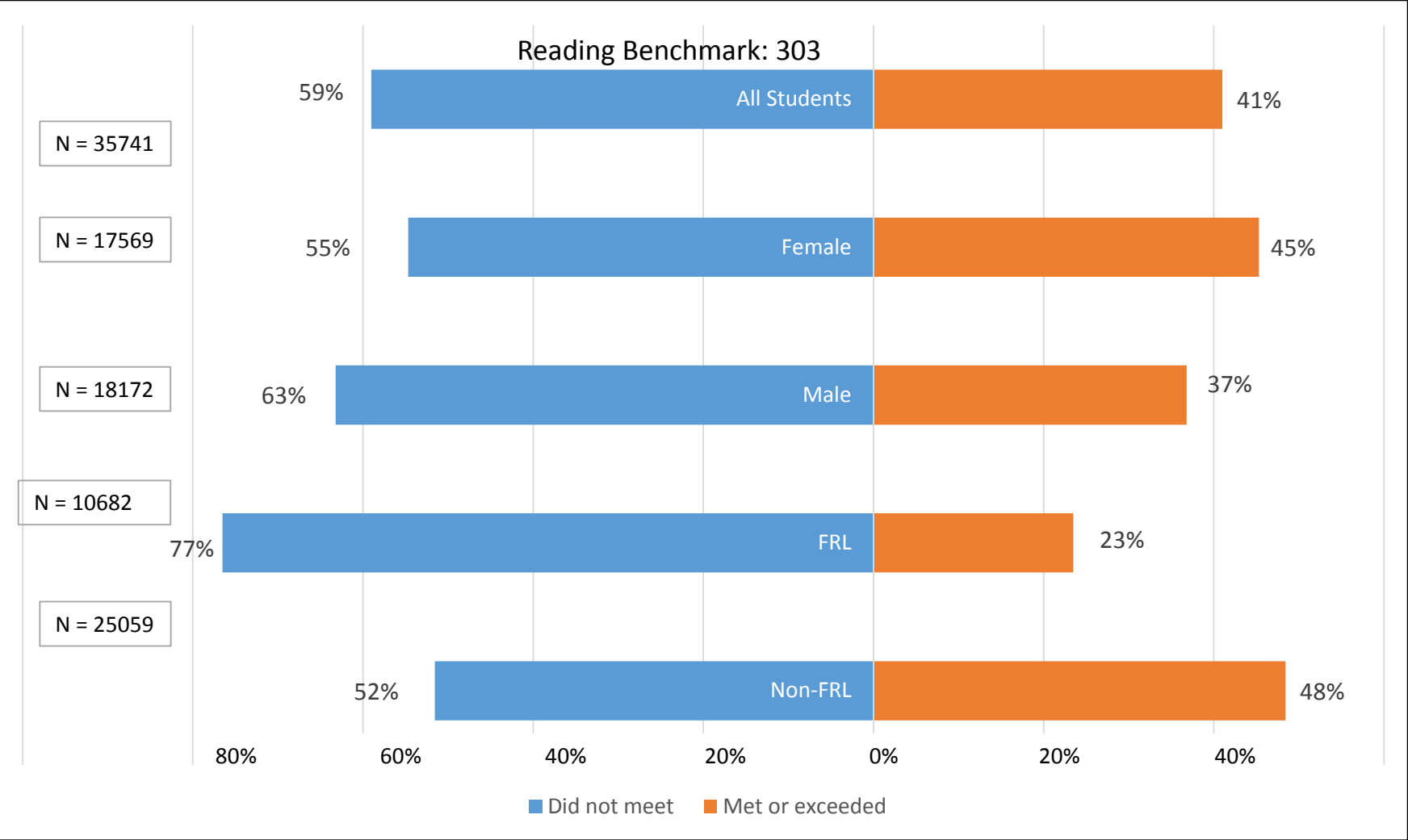


Figure 4: Percent of Iowa Students who met or exceeded College Readiness Benchmarks in Reading

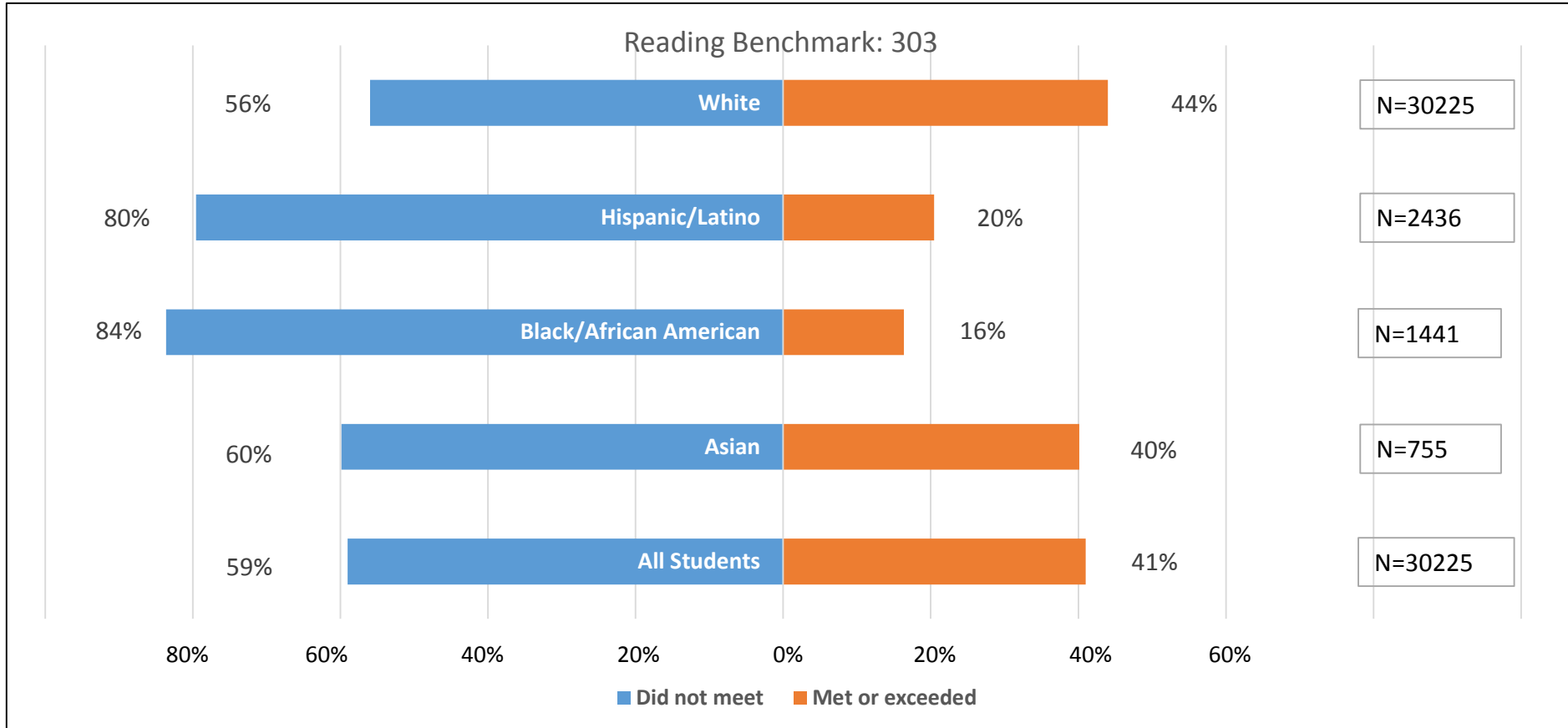


Figure 5: Percent of Iowa Students who met or exceeded College Readiness Benchmarks in Written Expression

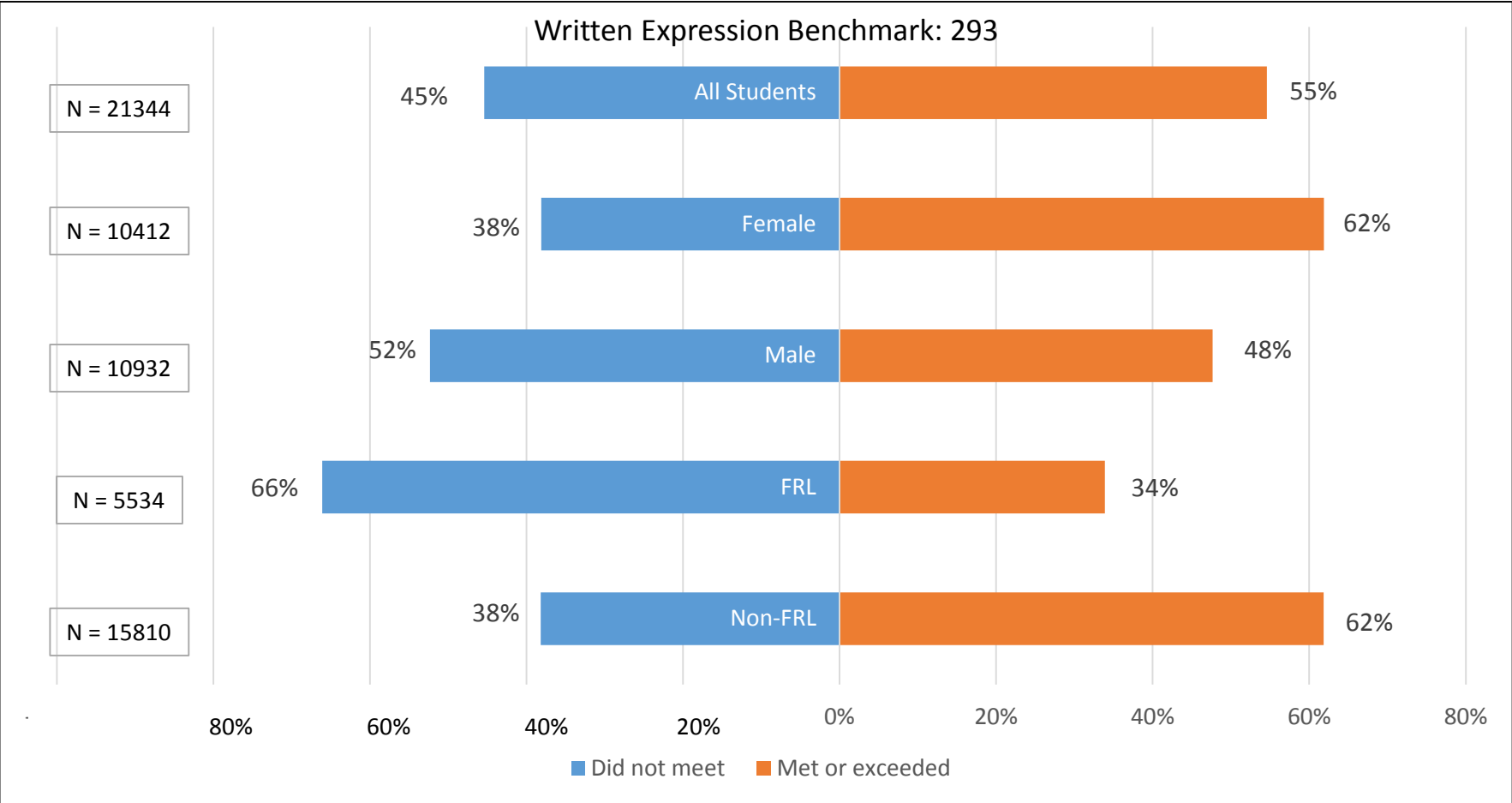


Figure 6: Percent of Iowa Students who met or exceeded College Readiness Benchmarks in Written Expression

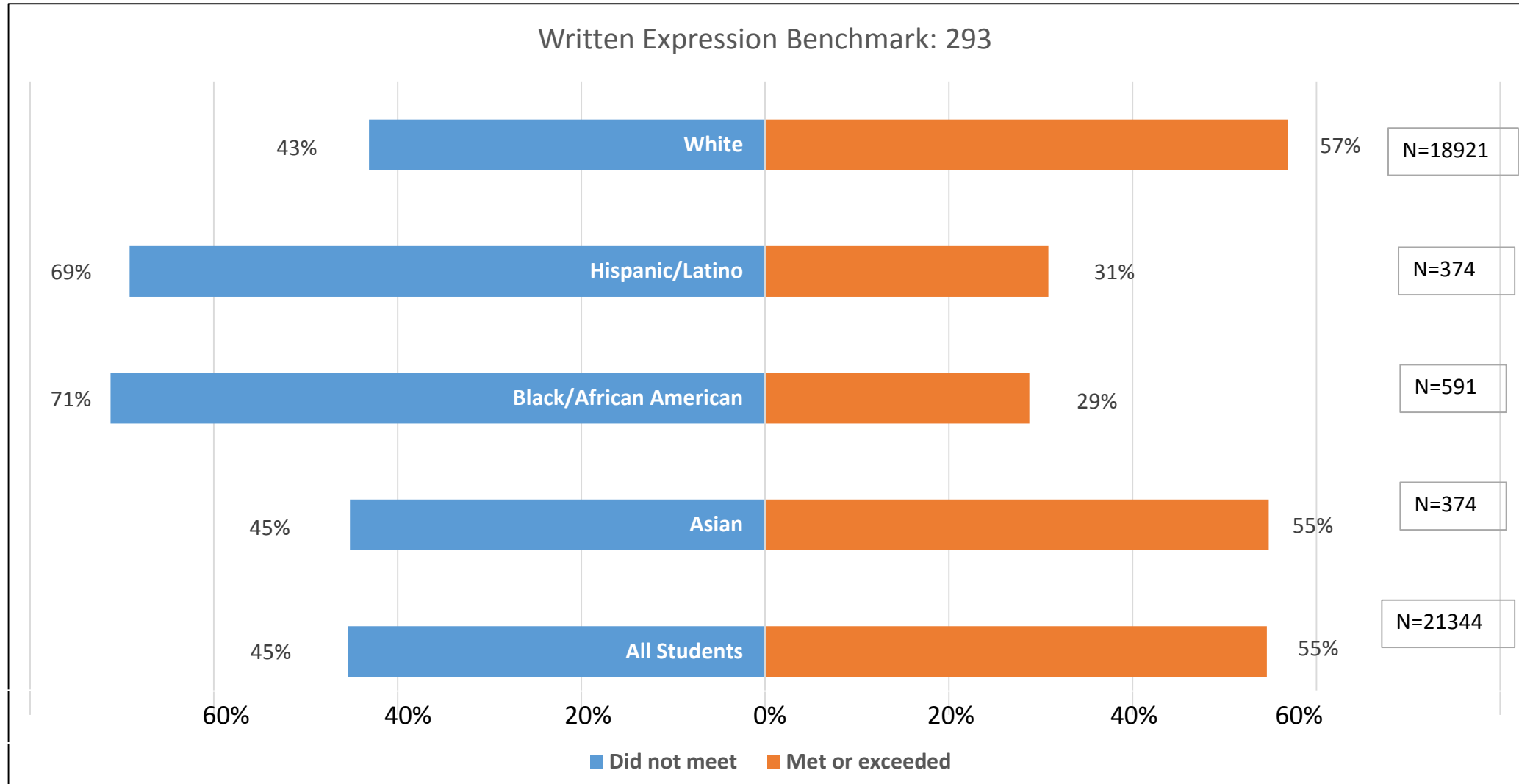


Figure 7: Percent of Iowa Students who met or exceeded College Readiness Benchmarks in Mathematics

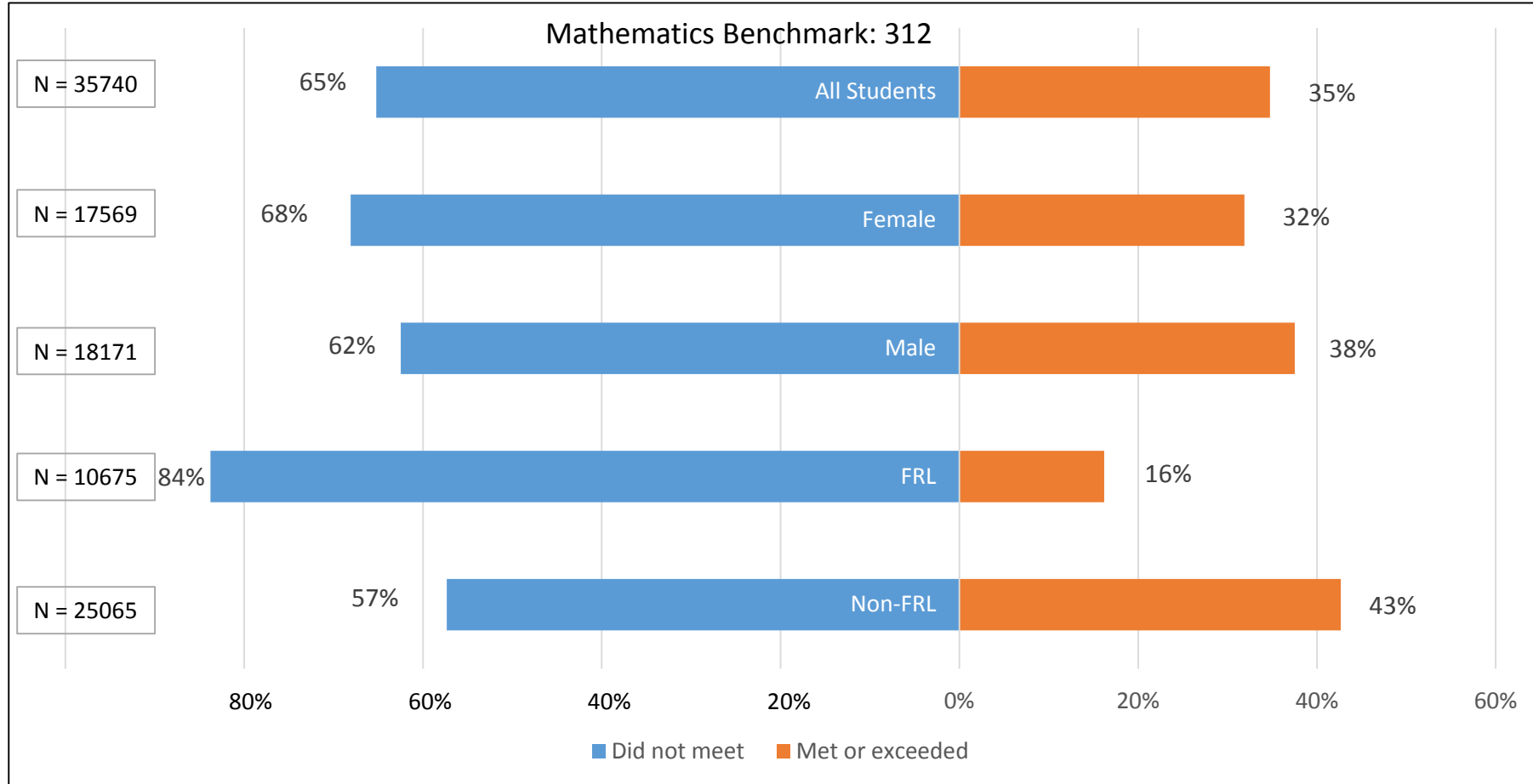


Figure 8: Percent of Iowa Students who met or exceeded College Readiness Benchmarks in Mathematics

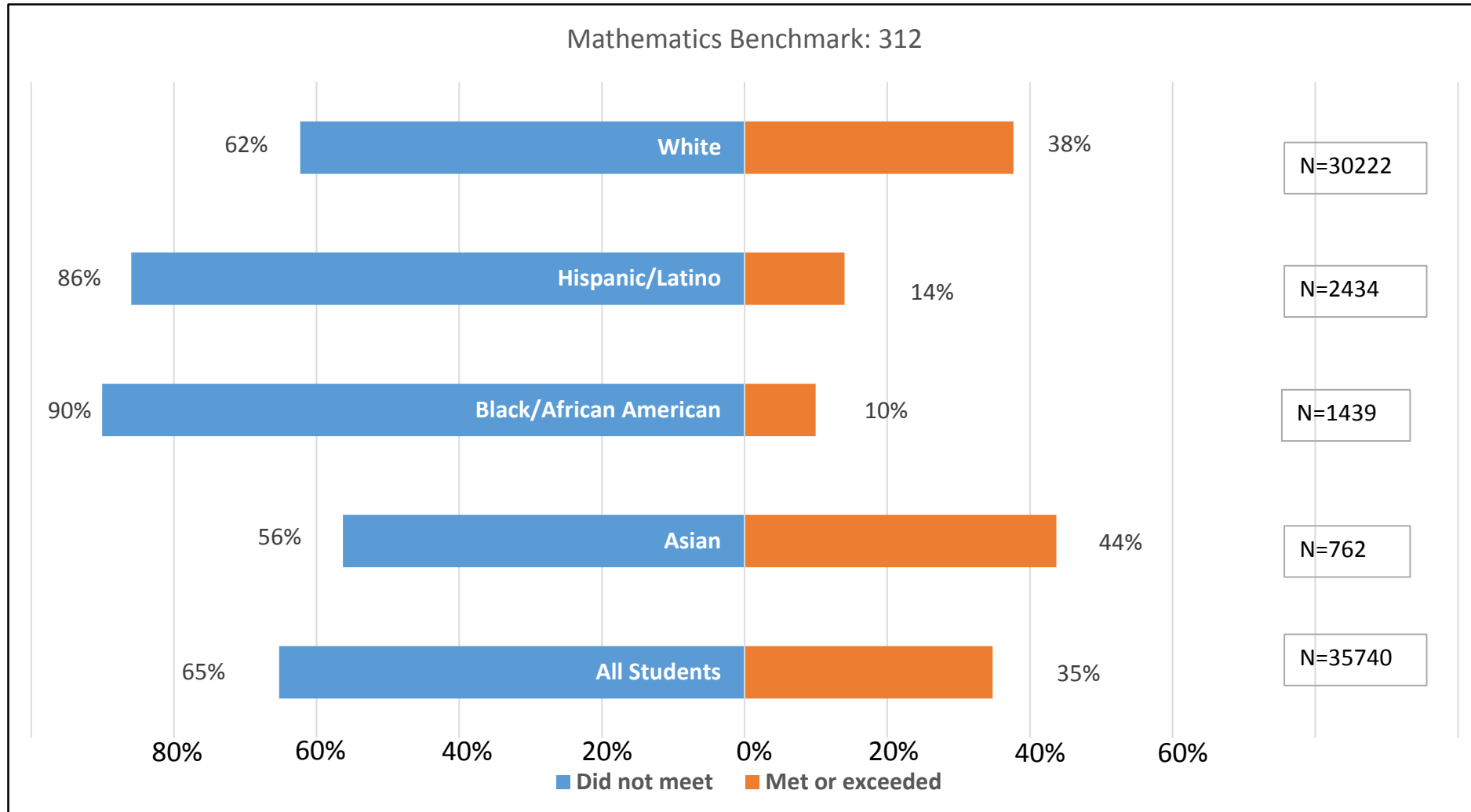


Figure 9: Percent of Iowa Students who met or exceeded College Readiness Benchmarks in Science

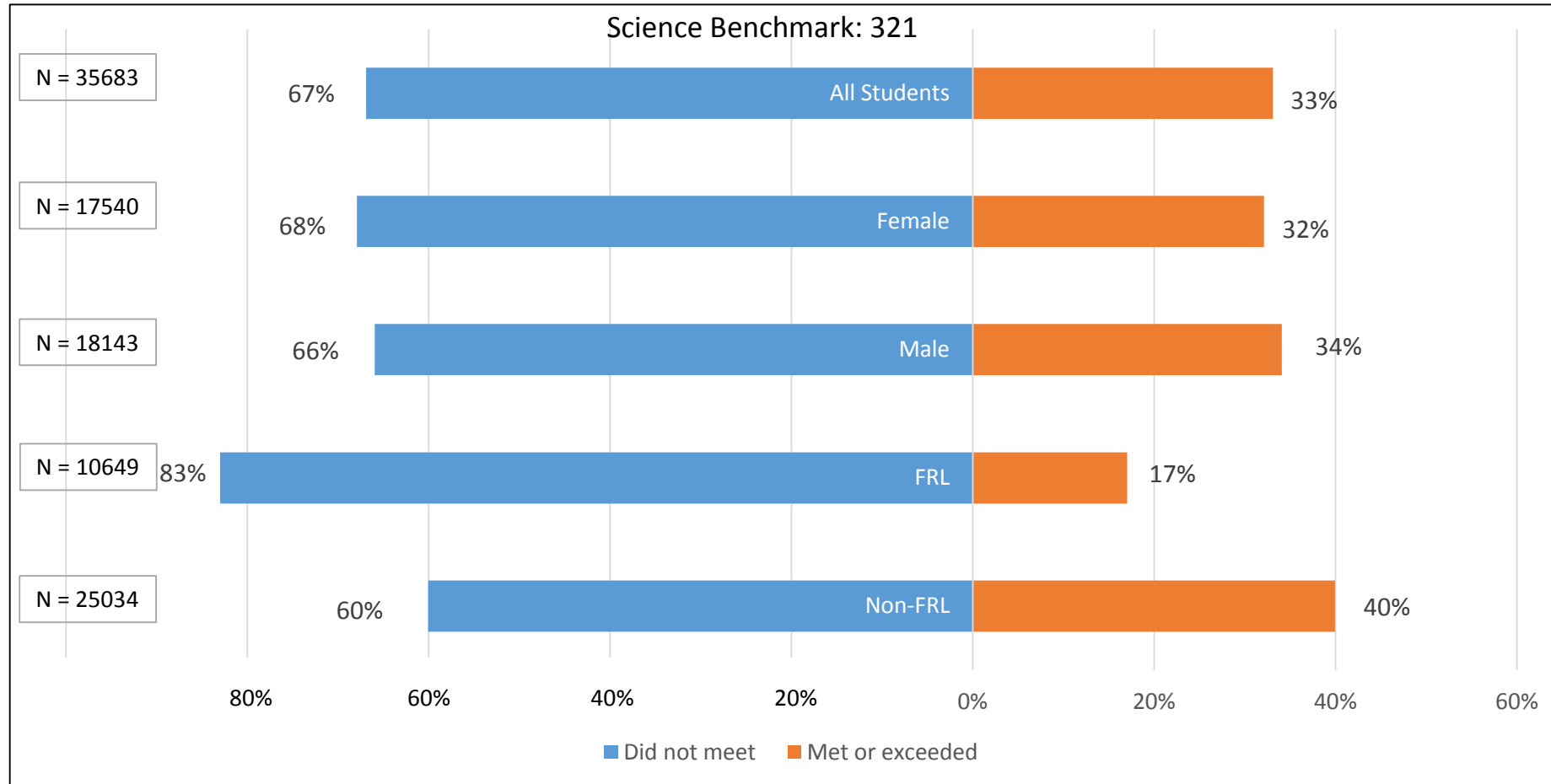


Figure 10: Percent of Iowa Students who met or exceeded College Readiness Benchmarks in Science

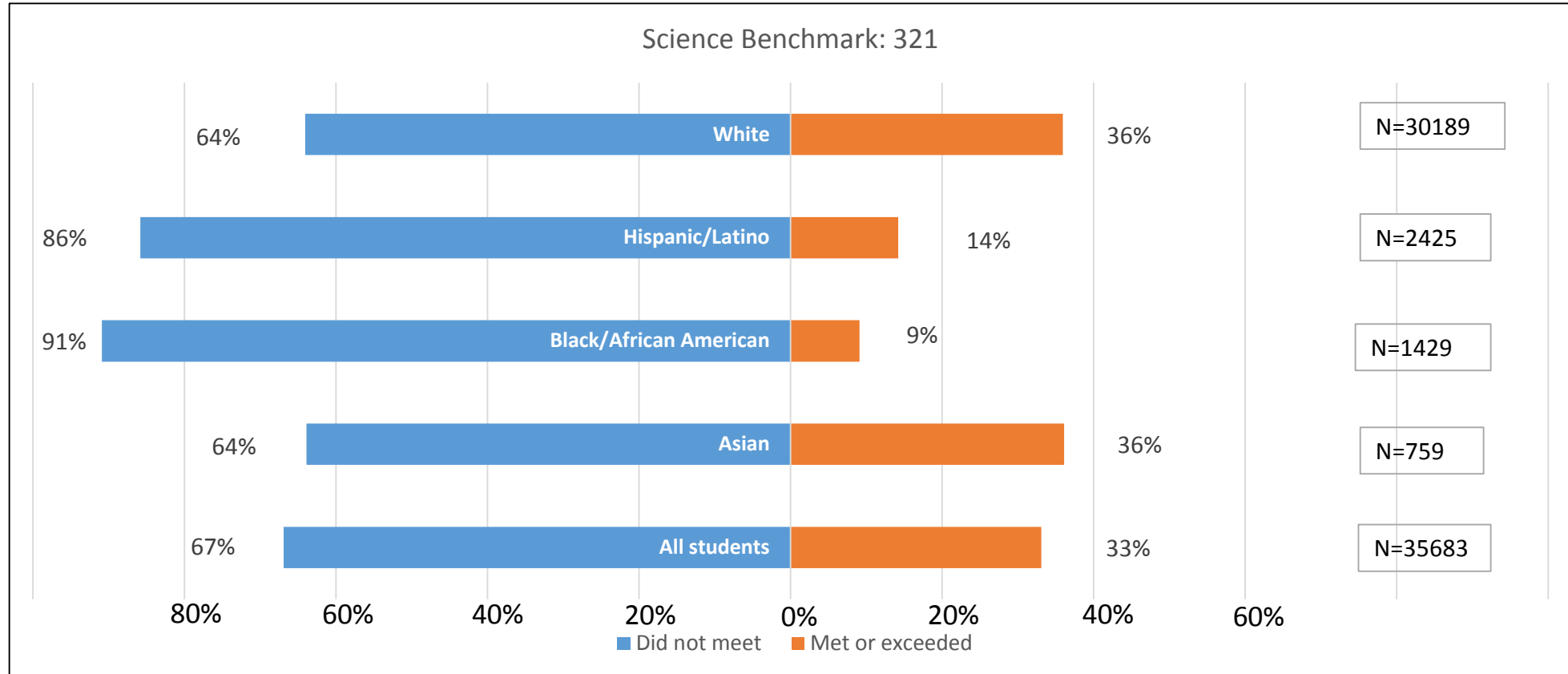


Figure 11: Percent of Iowa Students who met or exceeded all College Readiness Benchmarks

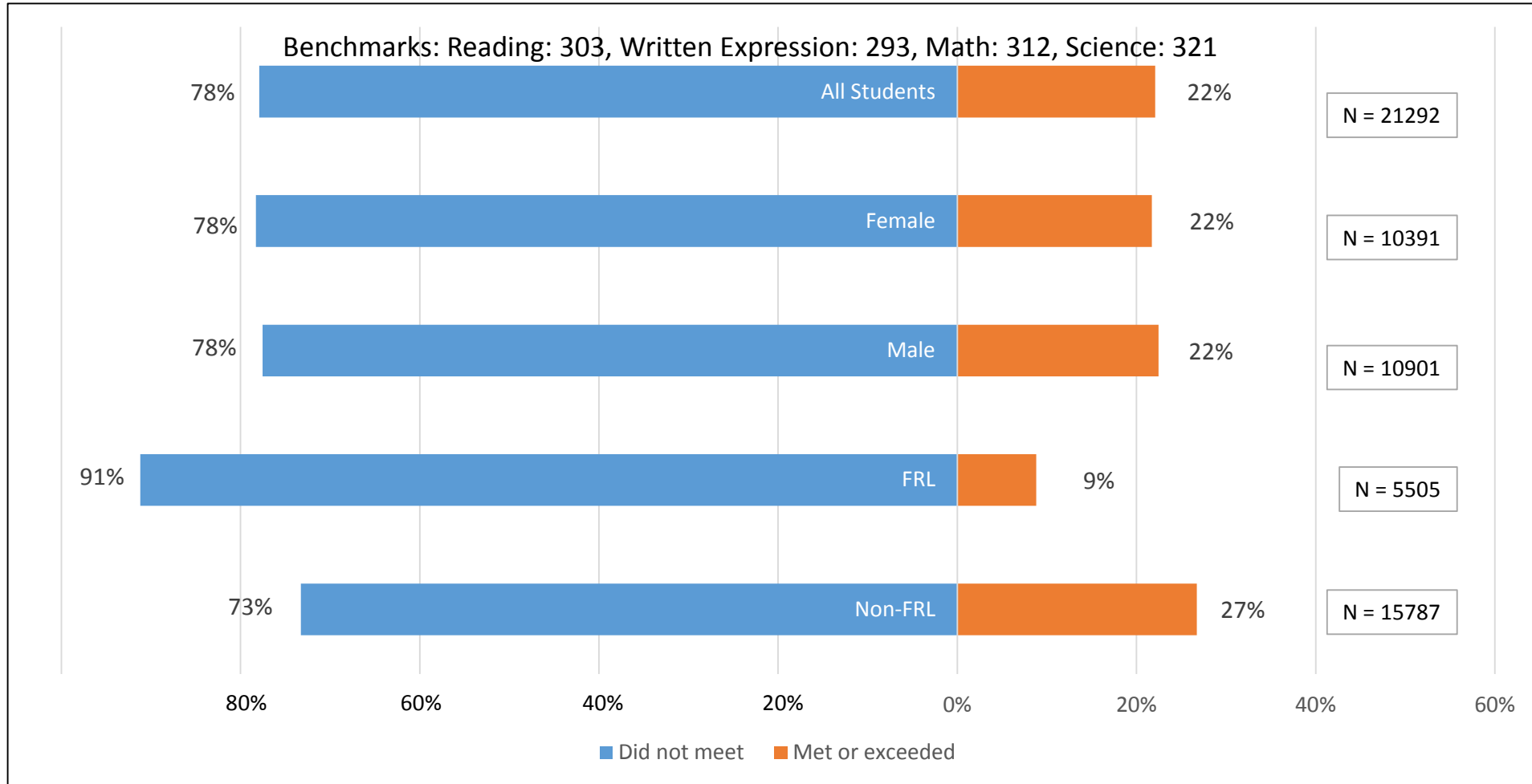


Figure 12: Percent of Iowa Students who met or exceeded all College Readiness Benchmarks

