

ACT Profile Report - State

Graduating Class 2013
Pennsylvania



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This report provides information about the performance of your 2013 graduating seniors who took the ACT as sophomores, juniors, or seniors; and self-reported at the time of testing that they were scheduled to graduate in 2013. Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included in the report.

This report focuses on:

Performance - student test performance in the context of college readiness

Access - number of your graduates exposed to college entrance testing and the percent of race/ethnicity participation

Course Selection - percent of students pursuing a core curriculum

Course Rigor - impact of rigorous coursework on achievement

College Readiness - percent of students meeting ACT College Readiness Benchmark Scores in each content area

Awareness - extent to which student aspirations match performance

Articulation - colleges and universities to which your students send test results

Each year, test data for a school, district, and the state represents a different cohort of students. ACT encourages educators to focus on trends (3, 5, 10 years), not year-to-year changes. Such changes can represent normal – even expected – fluctuations. On the other hand, trend lines offer more insight into what is happening in a school, district, or the state.

Furthermore, ACT encourages educators to measure student performance in the context of college readiness measures. The focus should be on the number and percentage of students who met or exceeded ACT's College Readiness Benchmark Scores, a measure that is much more meaningful and understandable than an average composite score for a group of students.

The ACT is a curriculum-based measure of college readiness. ACT components include:

- Tests of academic achievement in English, math, reading, science, and writing (optional)
- High school grade and course information
- Student Profile Section
- Career Interest Inventory

The ACT:

Every few years, ACT conducts the **ACT National Curriculum Survey** to ensure its curriculum-based assessment tools accurately measure the skills high school teachers teach and instructors of entry-level college courses expect. The ACT is the only college readiness test designed to reflect the results of such a survey.

ACT's **College Readiness Standards** are sets of statements intended to help students, parents and educators understand the meaning of test scores. The standards relate test scores to the types of skills needed for success in high school and beyond. They serve as a direct link between what students have learned and what they are ready to do next. The ACT is the only college readiness test for which scores can be tied directly to standards. *Connecting College Readiness Standards to the Classroom* interpretive guides can be found at www.act.org/standard/infoserv.html.

Only the ACT reports **College Readiness Benchmark Scores** – A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college courses, which include English Composition, Algebra, Social Science and Biology. These scores were empirically derived based on the actual performance of students in college. The College Readiness Benchmark Scores, updated for 2013, are:

College Course/Course Area	ACT Test	Benchmark Score
English Composition	English	18
Algebra	Mathematics	22
Social Sciences	Reading	22
Biology	Science	23

For more information, go to www.act.org

How to Improve Scores and Increase College Readiness

38% of your students met all four ACT College Readiness Benchmark Scores (Table 1.1). To improve students' scores and increase the percentage of students identified as college ready, ACT suggests:

PROVIDING ACCESS FOR ALL STUDENTS TO TAKE THE ACT: 26,171 of your students are included in this report (the 'cohort'). Increasing access insures that more students have the opportunity to consider college and allows the reader to use this report to evaluate how well courses and instructional programs are preparing students for college and work.

MAKING CORE CURRICULUM A PRIORITY: Emphasize the need for all students to develop college and work ready skills, regardless of postsecondary aspirations. 81% of the students in the cohort reported taking courses that would be considered 'Core or More' (Table 1.4).

MAKING SURE STUDENTS ARE TAKING THE RIGHT KINDS OF COURSES: Table 3.2 reports 2% of the cohort took less than three years of math courses. Of these students, 16% were college ready. 6% of the cohort reported taking a course sequence of Algebra I, Algebra II, and Geometry. 12% of these students were college ready. In comparison, 65% of the students who took 3 or more years of math beyond Algebra I, Algebra II, and Geometry were college ready. Getting more students ready for Algebra prior to 9th grade will increase the chances that students will be prepared for and take advanced-level math courses.

Similarly, Table 3.2 reports 4% of the cohort took less than three years of natural science courses. 20% of these students were college ready. In comparison, 49% of students who took at least three years of science coursework were college ready.

EVALUATING RIGOR OF COURSES: Table 2.6 reports the percentage of students falling in each of the ACT College Readiness Standards score ranges. For example, approximately 32% of the cohort fall into the lowest three Mathematics score ranges. To increase these students' achievement, identify the standards they should focus on next by accessing ACT's College Readiness Standards at www.act.org/standard.

PLAN GUIDANCE ACTIVITIES BASED ON STUDENTS' CAREER AND COLLEGE ASPIRATIONS: Data in Tables 4.1 and 4.2 enable the reader to determine if aspirations are consistent with academic performance and whether among students with similar aspirations, academic performance is consistent across racial/ethnic groups.

For more information on interpreting data in this report, or to learn how ACT can help your students improve their readiness for college and the workplace, contact ACT Customer Service at 319-337-1309 or customerservices@act.org.

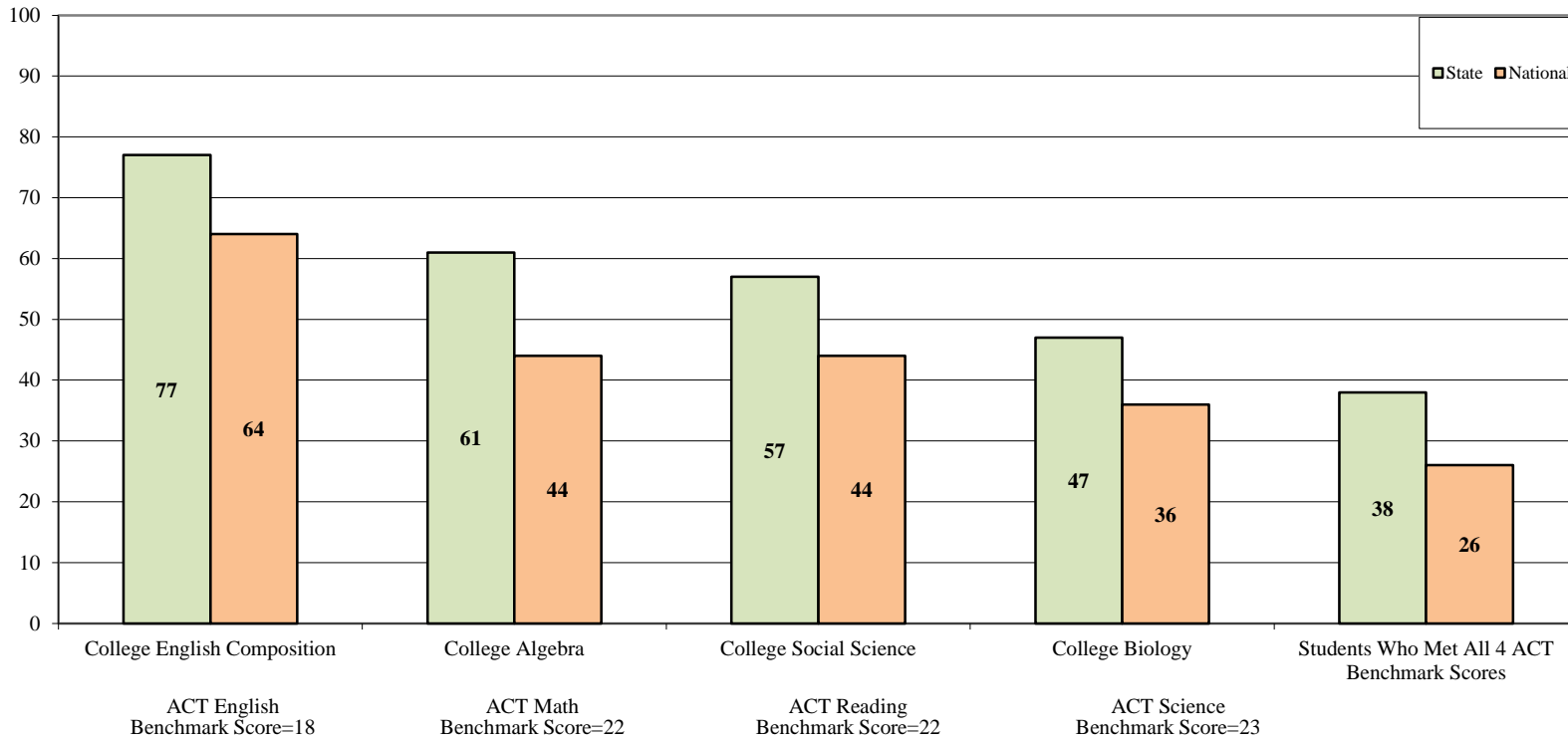
Section I

Executive Summary

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included. Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

To find the results of only standard time or extended time test takers, refer to Tables 1.7 and 1.8 on page 10.

Figure 1.1. Percent of Your Students Ready for College-Level Coursework



A benchmark score is the minimum score needed on an ACT subject-area test to indicate a 50% chance of obtaining a B or higher or about a 75% chance of obtaining a C or higher in the corresponding credit-bearing college course.

Table 1.1. Five Year Trends—Percent of Students Who Met College Readiness Benchmarks

Year	Number of Students Tested		Percent Who Met Benchmarks									
			English		Mathematics		Reading		Science		Met All Four	
	State	National	State	National	State	National	State	National	State	National	State	National
2009	21,199	1,480,469	74	67	52	42	60	53	33	28	29	23
2010	24,323	1,568,835	72	66	53	43	58	52	34	29	30	24
2011	24,280	1,623,112	75	66	58	45	62	52	37	30	33	25
2012	25,426	1,666,017	76	67	59	46	62	52	38	31	34	25
2013	26,171	1,799,243	77	64	61	44	57	44	47	36	38	26

Table 1.2. Five Year Trends—Average ACT Scores

Year	Number of Students Tested		Average ACT Scores									
			English		Mathematics		Reading		Science		Composite	
	State	National	State	National	State	National	State	National	State	National	State	National
2009	21,199	1,480,469	21.7	20.6	22.2	21.0	22.4	21.4	21.5	20.9	22.1	21.1
2010	24,323	1,568,835	21.3	20.5	22.1	21.0	22.1	21.3	21.4	20.9	21.9	21.0
2011	24,280	1,623,112	21.9	20.6	22.6	21.1	22.6	21.3	21.8	20.9	22.3	21.1
2012	25,426	1,666,017	22.0	20.5	22.7	21.1	22.7	21.3	21.9	20.9	22.4	21.1
2013	26,171	1,799,243	22.2	20.2	23.0	20.9	23.0	21.1	22.2	20.7	22.7	20.9

Table 1.3. Five Year Trends—Average ACT Scores Nationwide

Year	Number of Students Tested	Average ACT Scores				
		English	Mathematics	Reading	Science	Composite
2009	1,480,469	20.6	21.0	21.4	20.9	21.1
2010	1,568,835	20.5	21.0	21.3	20.9	21.0
2011	1,623,112	20.6	21.1	21.3	20.9	21.1
2012	1,666,017	20.5	21.1	21.3	20.9	21.1
2013	1,799,243	20.2	20.9	21.1	20.7	20.9

Total Students in Report: 26,171

Table 1.4. Five Year Trends—Average ACT Scores by Level of Preparation

Year	Number of Students Tested		Percent ²		Average ACT Scores									
	Core or More ¹	Less than Core	Core or More	Less than Core	English		Mathematics		Reading		Science		Composite	
					Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core	Core or More	Less than Core
2009	16,501	4,099	78	19	22.3	20.0	22.7	20.7	23.0	20.9	22.0	20.1	22.6	20.6
2010	17,791	4,541	73	19	22.4	19.8	22.8	20.8	23.0	20.8	22.2	20.1	22.7	20.5
2011	19,185	4,264	79	18	22.4	20.5	23.0	21.4	23.0	21.3	22.2	20.6	22.8	21.1
2012	20,598	4,227	81	17	22.3	20.8	22.9	21.7	23.0	21.6	22.2	20.9	22.7	21.4
2013	21,156	4,395	81	17	22.5	21.0	23.3	22.1	23.3	22.0	22.4	21.3	23.0	21.7

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

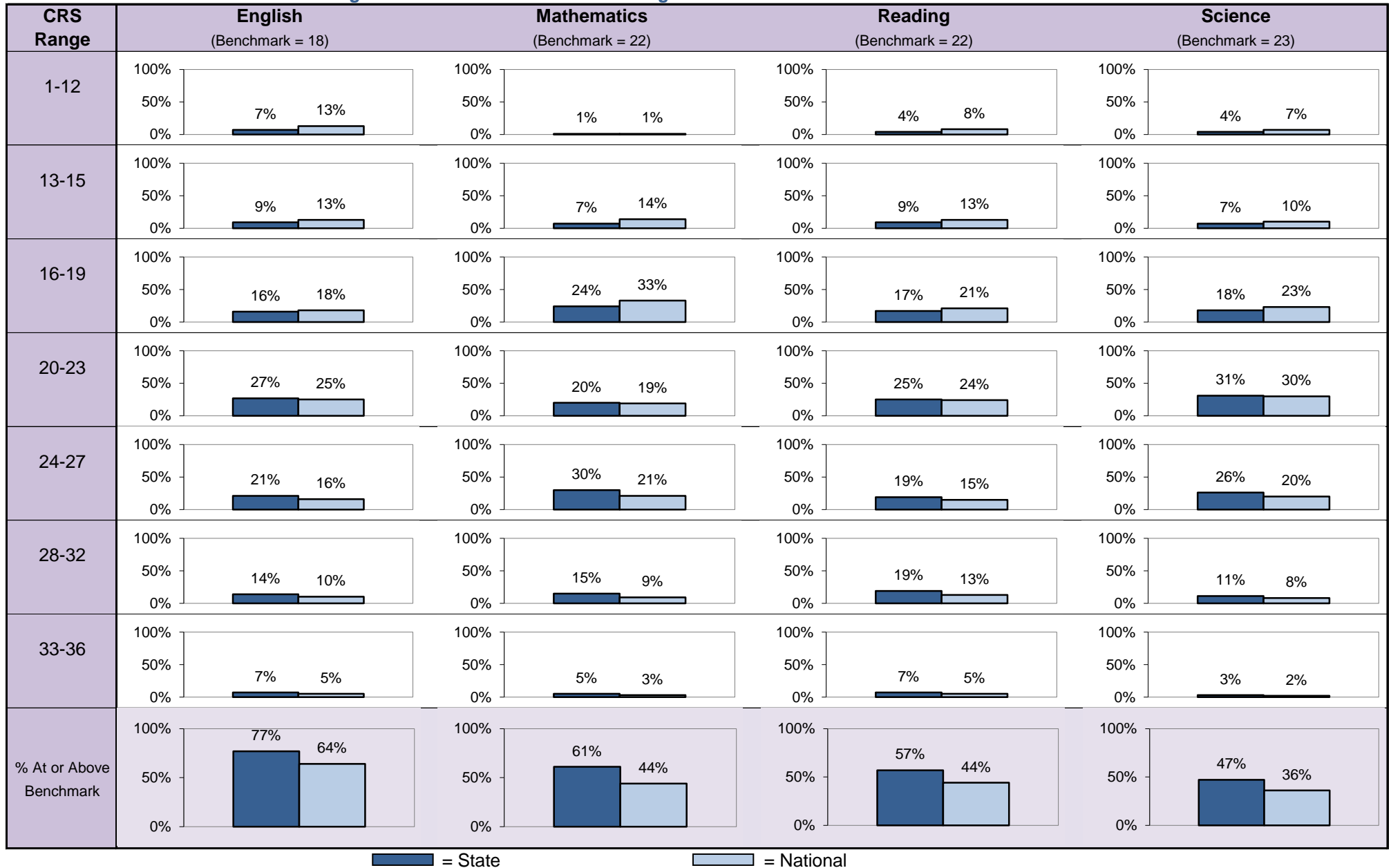
²Percent of all students tested. Numbers will not add up to 100% due to student non-response.

Table 1.5. Five Year Trends—Percent and Average Composite Score by Race/Ethnicity

	2009			2010			2011			2012			2013		
	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg	N	%	Avg
All Students	21,199	100	22.1	24,323	100	21.9	24,280	100	22.3	25,426	100	22.4	26,171	100	22.7
Black/African American	2,309	11	16.6	3,445	14	16.1	2,738	11	16.8	2,705	11	17.0	2,384	9	17.1
American Indian/Alaska Native	46	0	22.3	50	0	20.3	39	0	18.7	43	0	20.7	37	0	19.0
White	15,935	75	22.8	17,175	71	23.2	17,987	74	23.2	18,638	73	23.3	19,396	74	23.4
Hispanic/Latino	558	3	19.4	667	3	18.9	843	3	20.3	1,055	4	19.8	1,092	4	20.0
Asian	663	3	23.7	917	4	22.8	971	4	23.9	1,100	4	23.4	1,120	4	24.1
Native Hawaiian/Other Pacific Islander	0	0	.	0	0	.	7	0	22.9	28	0	20.6	27	0	20.9
Two or more races	330	2	21.0	483	2	20.7	507	2	21.1	591	2	21.5	674	3	22.0
Prefer not to respond/No response	1,358	6	23.0	1,586	7	21.3	1,188	5	22.4	1,266	5	23.6	1,441	6	23.8

Total Students in Report: 26,171

Table 1.6. Percent of Students in College Readiness Standards Score Ranges



Total Students in Report: 26,171

Table 1.7. Average ACT College Reportable Scores by Test Session Duration

Student Group	Test Session Duration	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Standard Time	25,396	97	22.3	23.1	23.1	22.2	22.8
	Extended Time	775	3	19.3	20.1	21.4	20.0	20.3
	Total	26,171	100	22.2	23.0	23.0	22.2	22.7
National	Standard Time	1,727,041	96	20.4	21.0	21.3	20.9	21.0
	Extended Time	72,202	4	15.9	17.7	18.1	17.9	17.5
	Total	1,799,243	100	20.2	20.9	21.1	20.7	20.9

Table 1.8. Percent of Students Who Met College Readiness Benchmark Scores by Test Session Duration

Student Group	Test Session Duration	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Standard Time	78	62	58	48	38
	Extended Time	57	36	47	31	24
	Total	77	61	57	47	38
National	Standard Time	65	45	45	37	27
	Extended Time	35	20	28	20	13
	Total	64	44	44	36	26

Section II

Academic Achievement

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 26,171

Table 2.1. ACT Score Distributions, Cumulative Percentages (CP¹), and Score Averages

ACT Score	English		Mathematics		Reading		Science		Composite		ACT Score
	N	CP	N	CP	N	CP	N	CP	N	CP	
36	142	100	161	100	346	100	174	100	17	100	36
35	392	99	237	99	125	99	225	99	138	100	35
34	563	98	507	98	686	98	196	98	244	99	34
33	662	96	366	97	794	96	180	98	353	98	33
32	452	93	482	95	876	93	394	97	513	97	32
31	631	92	439	93	1,244	89	504	96	628	95	31
30	711	89	673	92	895	84	553	94	885	93	30
29	849	86	853	89	928	81	700	91	1,122	89	29
28	949	83	1,351	86	991	77	828	89	1,210	85	28
27	927	80	1,732	81	1,069	74	1,046	86	1,401	80	27
26	1,297	76	2,079	74	1,022	70	1,228	82	1,532	75	26
25	1,420	71	2,030	66	1,139	66	2,287	77	1,745	69	25
24	1,816	66	1,954	58	1,709	61	2,216	68	1,857	63	24
23	1,808	59	1,768	51	1,382	55	1,777	60	1,896	56	23
22	1,580	52	1,283	44	1,791	50	2,197	53	1,888	48	22
21	1,944	46	1,246	39	1,796	43	2,349	45	1,785	41	21
20	1,826	38	843	34	1,656	36	1,787	36	1,630	34	20
19	1,214	31	1,278	31	1,207	30	1,676	29	1,420	28	19
18	1,001	27	1,333	26	1,366	25	1,343	22	1,364	23	18
17	863	23	1,808	21	898	20	946	17	1,113	17	17
16	1,017	20	1,799	14	982	16	801	14	952	13	16
15	1,010	16	1,134	7	911	12	712	11	790	9	15
14	747	12	458	3	655	9	504	8	632	6	14
13	522	9	201	1	674	7	487	6	530	4	13
12	440	7	93	1	483	4	348	4	287	2	12
11	411	5	41	1	273	2	299	3	131	1	11
10	361	4	12	1	132	1	183	2	57	1	10
9	249	2	0	1	63	1	128	1	32	1	9
8	196	1	4	1	20	1	49	1	9	1	8
7	104	1	2	1	29	1	20	1	7	1	7
6	43	1	2	1	14	1	12	1	2	1	6
5	13	1	0	1	8	1	8	1	1	1	5
4	9	1	2	1	4	1	4	1	0	1	4
3	1	1	0	1	1	1	10	1	0	1	3
2	1	1	0	1	1	1	0	1	0	1	2
1	0	1	0	1	1	1	0	1	0	1	1
Avg (SD)	22.2 (6.3)		23.0 (5.4)		23.0 (6.2)		22.2 (5.3)		22.7 (5.3)		Avg (SD)

¹CP is the cumulative percent of students at or below a score point.

Note: Shaded portions of columns identify the students who met/exceeded the ACT College Readiness Benchmark Scores.

Total Students in Report: 26,171

Table 2.2. ACT Subscore Distributions, Cumulative Percentages (CP¹), and Subscore Averages

ACT Scale Score	English				Reading				Mathematics						ACT Scale Score
	Usage/ Mechanics		Rhetorical Skills		Social Studies/ Sciences		Arts/ Literature		Pre/Elementary Algebra		Algebra/ Coordinate Geometry		Plane Geometry/ Trigonometry		
	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	N	CP	
18	1,293	100	686	100	1,073	100	1,281	100	1,853	100	321	100	457	100	18
17	1,874	95	238	97	1,756	96	1,854	95	1,792	93	587	99	74	98	17
16	1,563	88	1,783	96	1,814	89	2,221	88	1,806	86	872	97	1,595	98	16
15	1,486	82	2,072	90	1,842	82	2,228	80	2,633	79	2,211	93	2,112	92	15
14	1,803	76	2,385	82	1,737	75	2,247	71	2,184	69	3,100	85	2,879	84	14
13	1,790	69	2,599	73	2,364	69	2,253	62	2,702	61	3,619	73	3,034	73	13
12	2,156	63	3,455	63	3,224	60	2,218	54	2,481	50	3,107	59	3,929	61	12
11	3,083	54	2,668	49	2,495	47	2,384	45	2,618	41	2,992	47	2,544	46	11
10	2,758	43	2,544	39	2,260	38	2,220	36	1,693	31	3,297	36	2,385	36	10
9	2,148	32	2,551	30	2,183	29	1,700	28	1,559	24	2,172	23	2,885	27	9
8	1,727	24	1,796	20	1,819	21	1,814	21	1,924	19	1,814	15	1,710	16	8
7	1,444	17	1,113	13	1,686	14	1,379	14	1,658	11	829	8	1,002	10	7
6	1,003	12	817	9	960	7	962	9	697	5	588	5	711	6	6
5	910	8	723	6	487	4	898	5	345	2	272	3	214	3	5
4	529	4	438	3	246	2	344	2	141	1	174	1	358	2	4
3	373	2	236	1	95	1	120	1	67	1	125	1	86	1	3
2	209	1	58	1	87	1	45	1	17	1	18	1	113	1	2
1	22	1	9	1	43	1	3	1	1	1	73	1	83	1	1
Avg (SD)	11.3 (3.9)		11.3 (3.3)		11.7 (3.6)		11.9 (3.7)		12.3 (3.5)		11.6 (2.9)		11.4 (3.1)		Avg (SD)

¹CP is the cumulative percent of students at or below a score point.

Table 2.3. ACT Score Quartile Values

Quartile	English	Mathematics	Reading	Science	Composite
Q3 (75th Percentile)	26	27	28	25	26
Q2 (50th Percentile)	22	23	23	22	23
Q1 (25th Percentile)	18	18	19	19	19

Total Students in Report: 26,171

Table 2.4. Average ACT Composite Scores for Race/Ethnicity by Level of Preparation

Student Group	Race/Ethnicity	Number of Students Tested	Percent Taking Core or More ¹	Average ACT Composite Score	
				Core or More	Less Than Core
State	All Students	26,171	81	23.0	21.7
	Black/African American	2,384	69	17.4	16.3
	American Indian/Alaska Native	37	76	19.3	18.5
	White	19,396	84	23.6	22.8
	Hispanic/Latino	1,092	76	20.2	19.7
	Asian	1,120	73	24.6	23.6
	Native Hawaiian/Other Pac. Isl.	27	74	21.8	20.7
	Two or more races	674	80	22.3	20.5
	Prefer not/No Response	1,441	73	24.4	23.8
National	All Students	1,799,243	74	21.7	18.7
	Black/African American	239,598	69	17.5	15.6
	American Indian/Alaska Native	14,217	62	19.1	16.5
	White	1,034,712	76	22.9	20.0
	Hispanic/Latino	259,741	72	19.5	17.2
	Asian	71,677	81	24.1	21.5
	Native Hawaiian/Other Pac. Isl.	4,772	71	20.5	17.5
	Two or more races	64,221	74	21.9	19.2
	Prefer not/No Response	110,305	58	22.4	18.4

¹"Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

Table 2.5. Average ACT Scores by Race/Ethnicity

Student Group	Race/Ethnicity	English	Mathematics	Reading	Science	Composite
State	All Students	22.2	23.0	23.0	22.2	22.7
	Black/African American	15.8	18.0	17.3	16.8	17.1
	American Indian/Alaska Native	17.5	19.7	19.3	18.9	19.0
	White	23.0	23.5	23.8	22.9	23.4
	Hispanic/Latino	19.0	20.4	20.4	19.6	20.0
	Asian	23.0	26.1	23.4	23.5	24.1
	Native Hawaiian/Other Pac. Isl.	19.7	22.0	20.5	20.9	20.9
	Two or more races	21.3	22.2	22.4	21.5	22.0
	Prefer not/No Response	23.5	23.8	24.5	22.9	23.8
National	All Students	20.2	20.9	21.1	20.7	20.9
	Black/African American	15.7	17.2	17.0	16.9	16.9
	American Indian/Alaska Native	16.6	18.2	18.3	18.3	18.0
	White	21.8	21.9	22.6	22.0	22.2
	Hispanic/Latino	17.7	19.3	18.9	18.8	18.8
	Asian	22.5	25.0	22.9	23.1	23.5
	Native Hawaiian/Other Pac. Isl.	18.6	20.1	19.5	19.5	19.5
	Two or more races	20.6	20.9	21.6	20.9	21.1
	Prefer not/No Response	20.0	20.8	21.0	20.5	20.7

Total Students in Report: 26,171

Table 2.6. Percent of Students in College Readiness Standards (CRS) Score Ranges

Student Group	CRS Range	English		Mathematics		Reading		Science	
		N	%	N	%	N	%	N	%
State	33 to 36	1,759	7	1,271	5	1,951	7	775	3
	28 to 32	3,592	14	3,798	15	4,934	19	2,979	11
	24 to 27	5,460	21	7,795	30	4,939	19	6,777	26
	20 to 23	7,158	27	5,140	20	6,625	25	8,110	31
	16 to 19	4,095	16	6,218	24	4,453	17	4,766	18
	13 to 15	2,279	9	1,793	7	2,240	9	1,703	7
	01 to 12	1,828	7	156	1	1,029	4	1,061	4
National	33 to 36	81,846	5	51,648	3	89,731	5	36,033	2
	28 to 32	175,672	10	156,561	9	239,643	13	138,865	8
	24 to 27	291,095	16	385,102	21	277,723	15	364,600	20
	20 to 23	447,398	25	343,822	19	424,936	24	542,531	30
	16 to 19	327,718	18	590,816	33	384,706	21	413,107	23
	13 to 15	242,064	13	258,384	14	240,069	13	183,840	10
	01 to 12	233,450	13	12,910	1	142,435	8	120,267	7

Table 2.7. Average ACT Scores by Gender

Student Group	Gender	N	Percent	Average ACT Scores				
				English	Mathematics	Reading	Science	Composite
State	Males	11,324	43	22.0	23.8	23.0	22.9	23.1
	Females	14,847	57	22.3	22.3	23.0	21.6	22.4
	Missing	0	0
National	Males	835,431	46	19.8	21.4	20.9	21.2	20.9
	Females	954,919	53	20.6	20.5	21.4	20.4	20.9
	Missing	8,893	0	16.1	18.2	17.6	17.7	17.5

Table 2.8. Percent of Students Who Met College Readiness Benchmark Scores by Gender

Student Group	Gender	Percent of Students				Met All Four
		English	Mathematics	Reading	Science	
State	Males	76	67	57	54	43
	Females	78	56	57	42	34
National	Males	62	47	43	40	29
	Females	67	41	45	33	24

Table 2.9. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Overall High School Curriculum

Student Group	Curriculum Taken ¹	N	English		Mathematics		Reading		Science		Composite	
			CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB %	Avg	CRB % ⁴	Avg
State	Core or More ²	21,156	80	22.5	64	23.3	59	23.3	49	22.4	39	23.0
	Less than Core	4,395	67	21.0	52	22.1	50	22.0	41	21.3	34	21.7
	Missing ³	620	52	18.2	32	19.6	34	19.5	23	19.2	14	19.3
National	Core or More	1,322,739	71	21.2	50	21.7	50	22.0	42	21.5	31	21.7
	Less than Core	396,592	48	17.8	27	18.9	30	19.0	22	18.8	14	18.7
	Missing	79,912	36	16.0	19	17.8	24	17.5	17	17.7	10	17.4

¹ "Curriculum Taken" reflects overall high school curriculum in this table.

² "Core or More" results correspond to students taking four or more years of English AND three or more years each of math, social studies, and natural science.

³ Zero years or no coursework information reported in one or more content areas.

⁴ Composite CRB% results reflect students who met all four subject-area benchmarks.

Table 2.10. College Readiness Benchmark (CRB) Percent and Average ACT Scores by Content-Specific Curriculum

Student Group	Curriculum Taken ¹	English			Mathematics			Reading			Science		
		N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg	N	CRB %	Avg
State	Core or More ²	25,205	78	22.3	25,125	62	23.1	22,308	58	23.1	24,646	49	22.4
	Less than Core	368	54	18.3	444	16	17.6	3,268	56	22.8	930	20	18.5
	Missing ³	598	53	18.3	602	32	19.6	595	34	19.6	595	23	19.2
National	Core or More	1,646,286	67	20.6	1,648,697	46	21.3	1,554,990	46	21.5	1,506,965	40	21.3
	Less than Core	84,048	36	15.9	77,906	7	16.3	171,617	32	19.1	218,267	17	18.0
	Missing	68,909	38	16.4	72,640	20	17.9	72,636	25	17.7	74,011	18	17.8

¹ "Curriculum Taken" reflects content-specific curriculum in this table.

² "Core or More" results correspond to students taking four or more years of English or three or more years of math, social studies, or natural science, respectively.

For instance, Reading "Core or More" results correspond to students taking three or more years of social studies, regardless of courses taken in other content areas.

³ Zero years or no coursework information reported in the specified content area.

Section III

College Readiness and the Impact of Course Rigor

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Figure 3.1. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ENGLISH

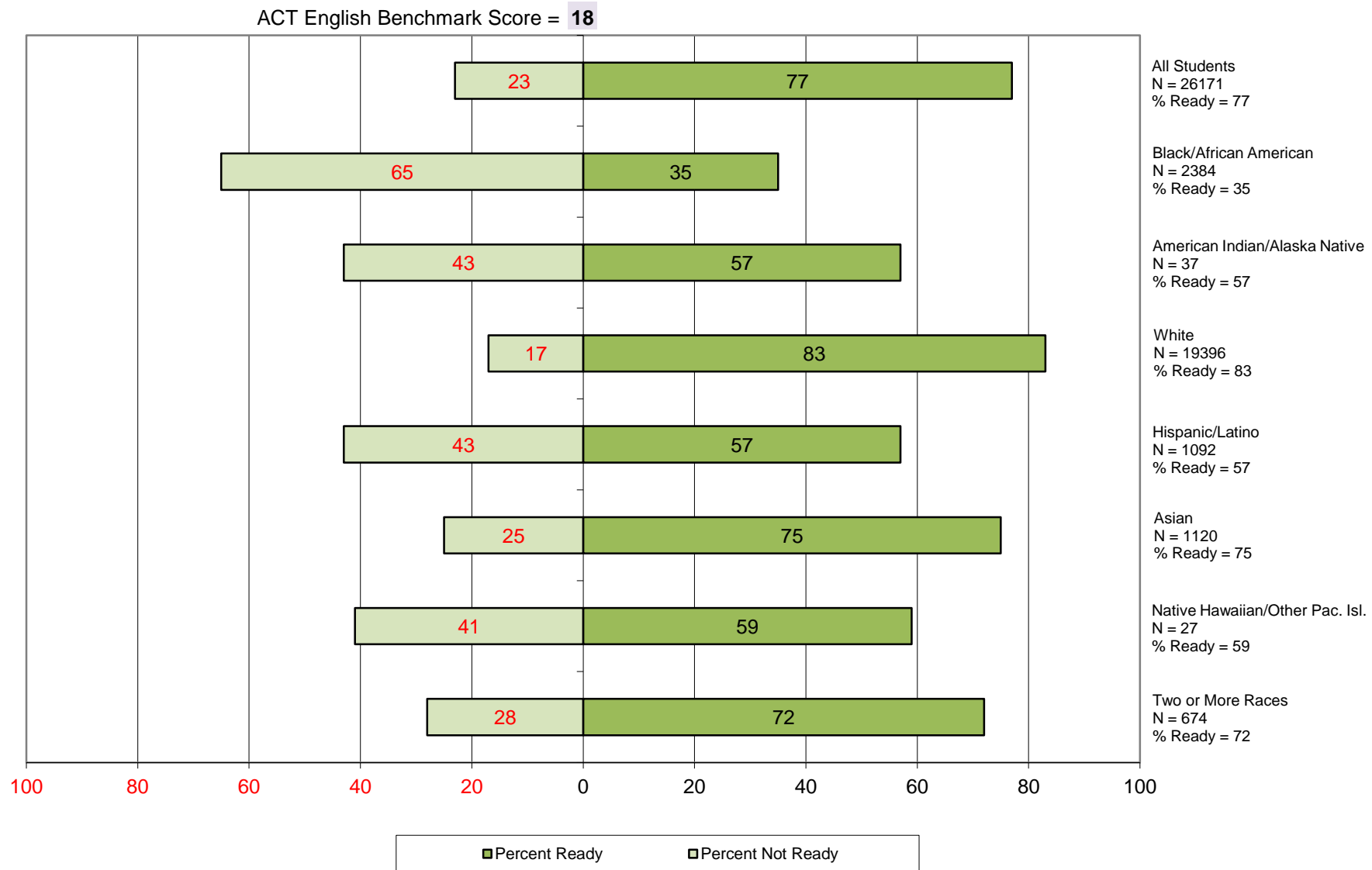


Figure 3.2. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: MATHEMATICS

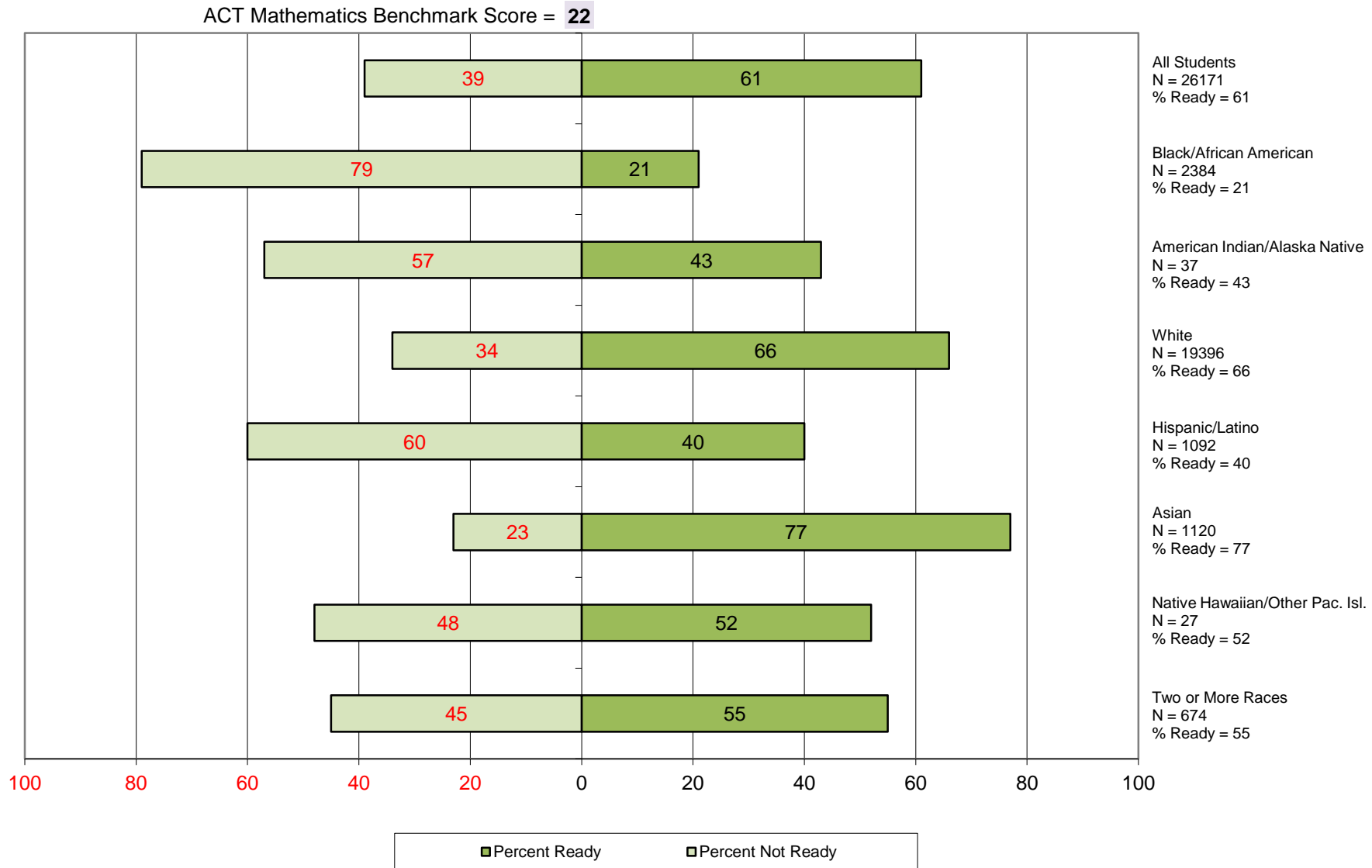


Figure 3.3. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: READING

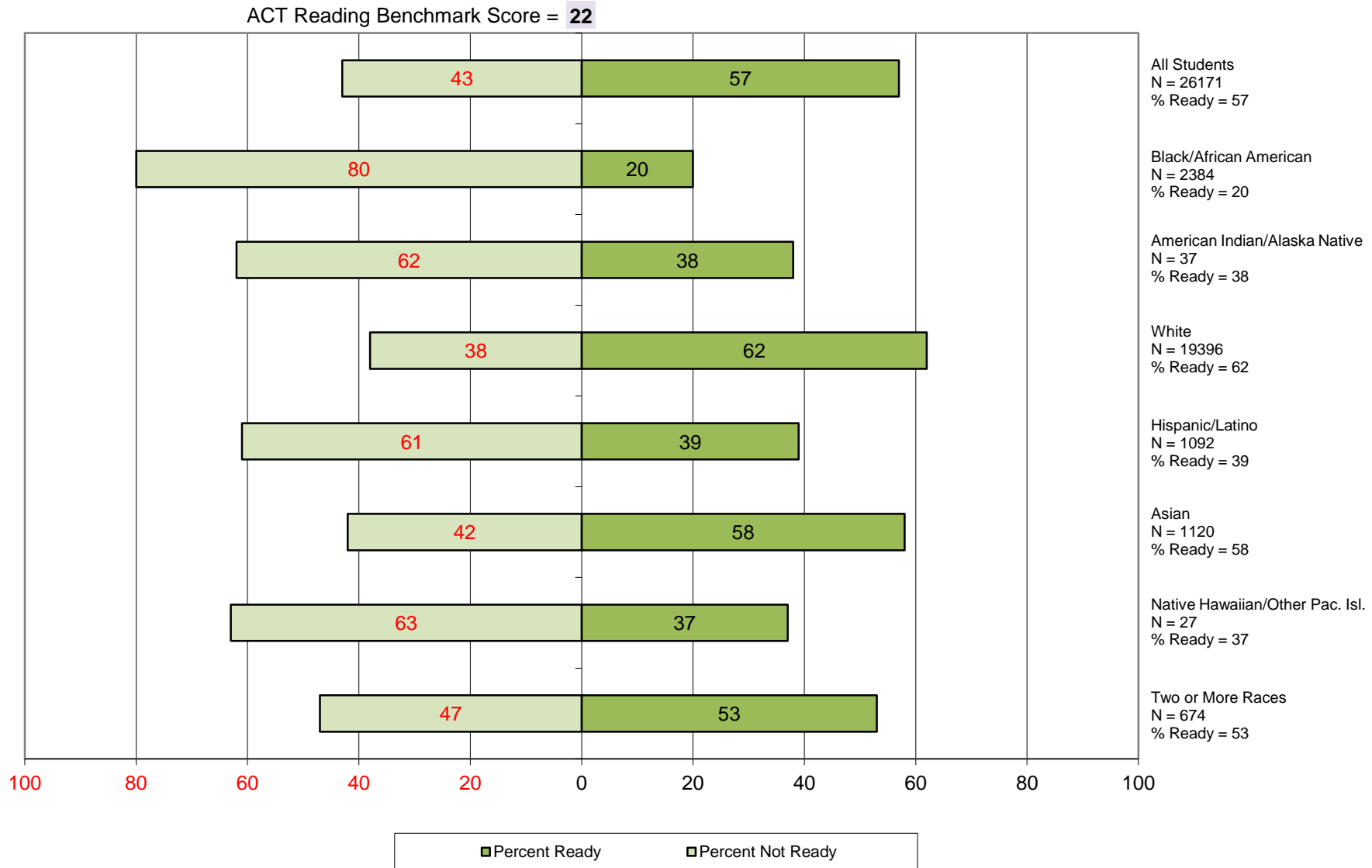


Figure 3.4. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: SCIENCE

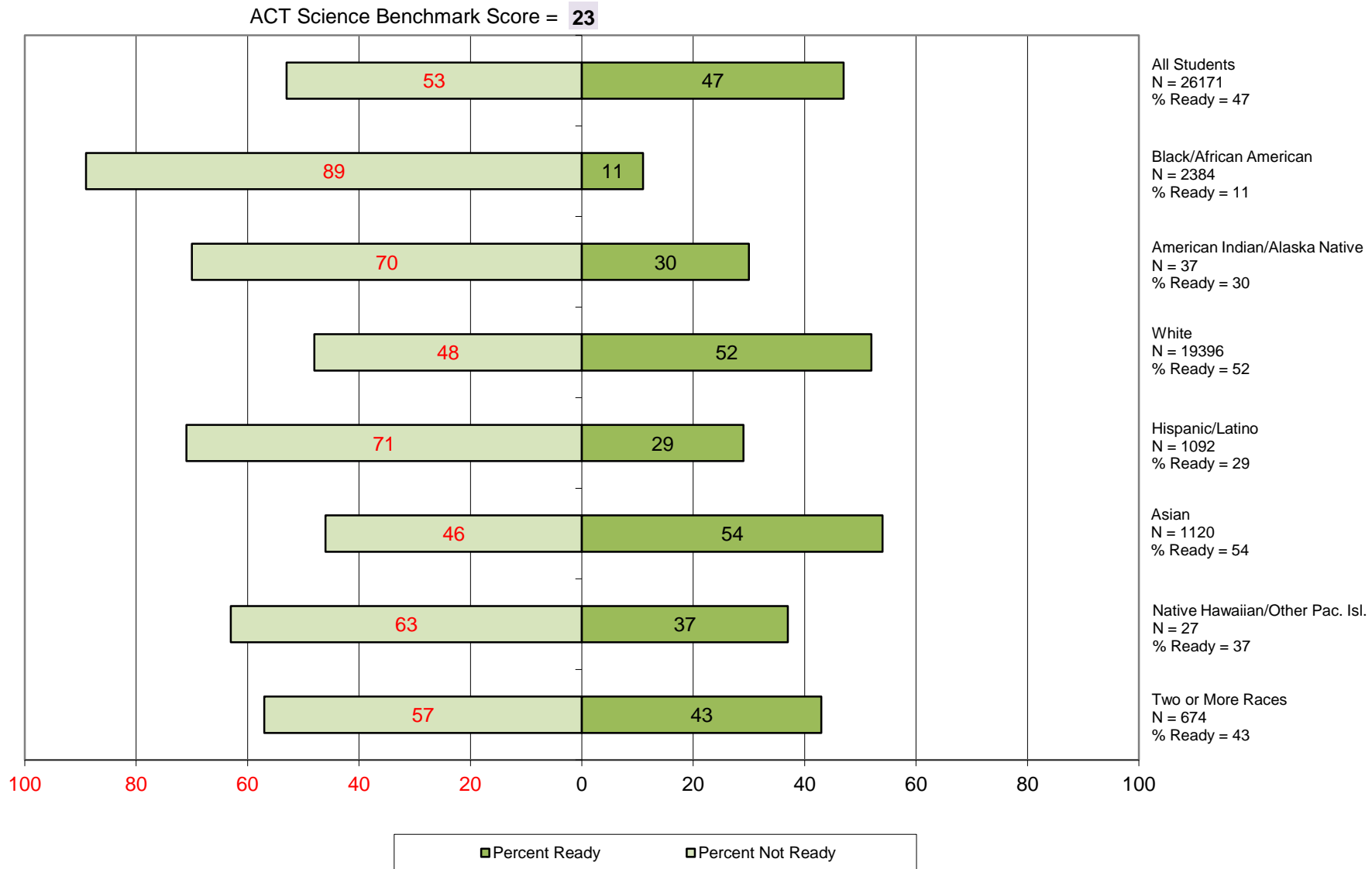
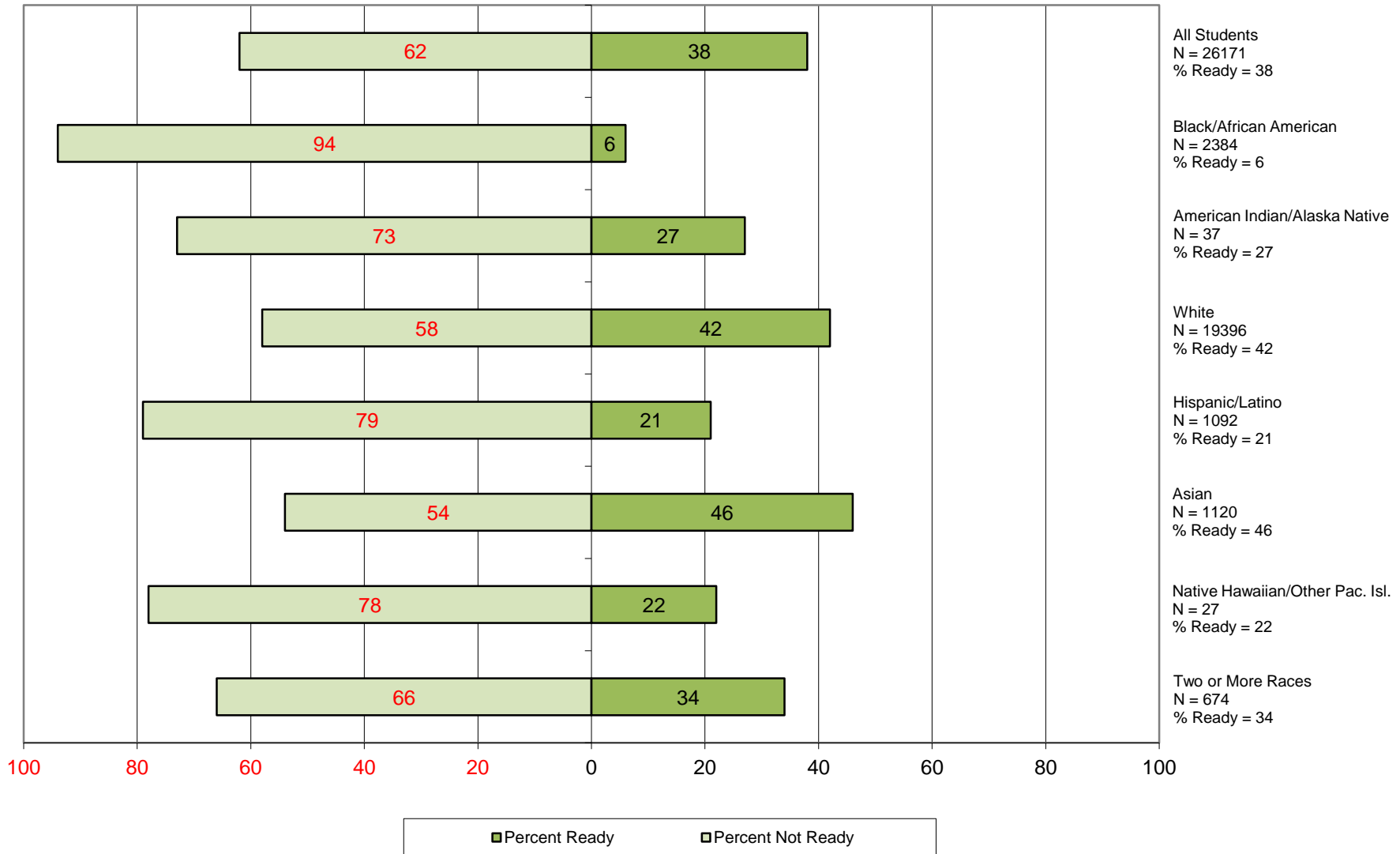


Figure 3.5. Percent of Students Who Met ACT College Readiness Benchmark Scores by Race/Ethnicity: ALL FOUR



Total Students in Report: 26,171

Table 3.1. Average ACT Scores and Average ACT Score Changes by Common Course Patterns

Course Pattern	All Students				Males				Females			
	N	Percent	ACT English	Course Value Added ¹	N	Percent	ACT English	Course Value Added ¹	N	Percent	ACT English	Course Value Added ¹
ENGLISH COURSE PATTERN												
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	5,703	22	22.7	4.4	2,296	20	22.3	4.4	3,407	23	22.9	4.3
Eng 9, Eng 10, Eng 11, Eng 12	19,502	75	22.2	3.9	8,539	75	22.1	4.2	10,963	74	22.3	3.7
Less than 4 years of English	368	1	18.3	-	176	2	17.9	-	192	1	18.6	-
Zero years / no English courses reported	598	2	18.3	-	313	3	17.9	-	285	2	18.7	-
MATHEMATICS COURSE PATTERN												
Alg 1, Alg 2, Geom, Trig, & Calc	3,558	14	25.0	7.4	1,415	12	25.7	7.5	2,143	14	24.6	7.6
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,504	10	21.7	4.1	812	7	22.3	4.1	1,692	11	21.4	4.4
Alg 1, Alg 2, Geom, & Trig	1,827	7	19.9	2.3	708	6	20.3	2.1	1,119	8	19.7	2.7
Alg 1, Alg 2, Geom, & Other Adv Math	2,400	9	19.6	2.0	825	7	19.9	1.7	1,575	11	19.5	2.5
Other comb of 4 or more years of Math	12,332	47	24.9	7.3	6,046	53	25.7	7.5	6,286	42	24.2	7.2
Alg 1, Alg 2, & Geom	1,440	6	17.3	-0.3	551	5	17.5	-0.7	889	6	17.2	0.2
Other comb of 3 or 3.5 years of Math	1,064	4	21.3	3.7	455	4	21.6	3.4	609	4	21.1	4.1
Less than 3 years of Math	444	2	17.6	-	197	2	18.2	-	247	2	17.0	-
Zero years / no Math courses reported	602	2	19.6	-	315	3	20.0	-	287	2	19.2	-
SOCIAL SCIENCE COURSE PATTERN												
US Hist, World Hist, Am Gov, & Other Hist	2,008	8	23.4	0.6	989	9	23.4	0.5	1,019	7	23.4	0.6
Other comb of 4 or more years Social Science	12,745	49	23.2	0.4	5,499	49	23.2	0.3	7,246	49	23.1	0.3
US Hist, World Hist, & Am Gov	1,251	5	22.2	-0.6	543	5	22.3	-0.6	708	5	22.0	-0.8
Other comb of 3 or 3.5 years of Social Science	6,304	24	23.2	0.4	2,569	23	23.2	0.3	3,735	25	23.3	0.5
Less than 3 years of Social Science	3,268	12	22.8	-	1,409	12	22.9	-	1,859	13	22.8	-
Zero years / no Social Science courses reported	595	2	19.6	-	315	3	19.6	-	280	2	19.6	-
NATURAL SCIENCE COURSE PATTERN												
Gen Sci ² , Bio, Chem, & Phys	16,772	64	22.9	4.4	7,687	68	23.6	5.3	9,085	61	22.2	3.5
Bio, Chem, Phys	2,642	10	24.0	5.5	1,123	10	24.9	6.6	1,519	10	23.3	4.6
Gen Sci ² , Bio, Chem	4,951	19	20.0	1.5	1,674	15	20.0	1.7	3,277	22	20.0	1.3
Other comb of 3 years of Natural Science	281	1	20.5	2.0	155	1	21.1	2.8	126	1	19.9	1.2
Less than 3 years of Natural Science	930	4	18.5	-	369	3	18.3	-	561	4	18.7	-
Zero years / no Natural Science courses reported	595	2	19.2	-	316	3	19.5	-	279	2	18.9	-

¹Course value added is defined as the average ACT score change compared to course sequences in which students took less than four years of English or less than three years of Mathematics, Social Science or Natural Science.

²Includes General, Physical and Earth Sciences.

Total Students in Report: 26,171

Table 3.2. College Readiness Percents by Common Course Patterns

Course Pattern	State				National			
	N	Percent Taking Pattern	Avg ACT English	Percent Who Met Benchmark	N	Percent Taking Pattern	Avg ACT English	Percent Who Met Benchmark
ENGLISH COURSE PATTERN								
Eng 9, Eng 10, Eng 11, Eng 12, & Other English	5,703	22	22.7	80	380,375	21	21.6	73
Eng 9, Eng 10, Eng 11, Eng 12	19,502	75	22.2	78	1,265,911	70	20.3	65
Less than 4 years of English	368	1	18.3	54	84,048	5	15.9	36
Zero years / no English courses reported	598	2	18.3	53	68,909	4	16.4	38
MATHEMATICS COURSE PATTERN								
Alg 1, Alg 2, Geom, Trig, & Calc	3,558	14	25.0	80	113,999	6	23.8	68
Alg 1, Alg 2, Geom, Trig, & Other Adv Math	2,504	10	21.7	54	155,095	9	21.9	56
Alg 1, Alg 2, Geom, & Trig	1,827	7	19.9	36	119,993	7	19.4	32
Alg 1, Alg 2, Geom, & Other Adv Math	2,400	9	19.6	33	336,291	19	19.6	32
Other comb of 4 or more years of Math	12,332	47	24.9	76	610,720	34	23.6	65
Alg 1, Alg 2, & Geom	1,440	6	17.3	12	223,733	12	17.2	11
Other comb of 3 or 3.5 years of Math	1,064	4	21.3	47	88,866	5	19.7	34
Less than 3 years of Math	444	2	17.6	16	77,906	4	16.3	7
Zero years / no Math courses reported	602	2	19.6	32	72,640	4	17.9	20
SOCIAL SCIENCE COURSE PATTERN								
US Hist, World Hist, Am Gov, & Other Hist	2,008	8	23.4	58	50,989	3	22.2	51
Other comb of 4 or more years Social Science	12,745	49	23.2	59	908,394	50	22.0	50
US Hist, World Hist, & Am Gov	1,251	5	22.2	51	106,021	6	19.5	34
Other comb of 3 or 3.5 years of Social Science	6,304	24	23.2	58	489,586	27	21.0	43
Less than 3 years of Social Science	3,268	12	22.8	56	171,617	10	19.1	32
Zero years / no Social Science courses reported	595	2	19.6	34	72,636	4	17.7	25
NATURAL SCIENCE COURSE PATTERN								
Gen Sci ¹ , Bio, Chem, & Phys	16,772	64	22.9	53	767,293	43	21.9	46
Bio, Chem, Phys	2,642	10	24.0	61	183,685	10	23.0	54
Gen Sci ¹ , Bio, Chem	4,951	19	20.0	28	504,165	28	19.9	28
Other comb of 3 years of Natural Science	281	1	20.5	35	51,822	3	19.1	25
Less than 3 years of Natural Science	930	4	18.5	20	218,267	12	18.0	17
Zero years / no Natural Science courses reported	595	2	19.2	23	74,011	4	17.8	18

¹Includes General, Physical and Earth Sciences.

Section IV

Career and Educational Aspirations

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 26,171

Table 4.1. Distribution of Planned Educational Majors for All Students by College Plans

Planned Educational Major	All Students			Plan on 2 Years or Less of College			Plan on 4 Years or More of College		
	N ¹	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp	N	Percent ²	Avg ACT Comp
Agriculture & Natural Resources Conservation	196	1	22.1	8	2	15.9	163	1	22.5
Architecture	243	1	22.5	2	1	23.5	201	1	22.6
Area, Ethnic, & Multidisciplinary Studies	48	0	24.6	0	0	.	43	0	25.0
Arts: Visual & Performing	1,094	4	21.4	21	5	18.5	939	4	21.6
Business	3,011	12	22.0	61	16	18.0	2,555	12	22.2
Communications	766	3	22.1	5	1	19.0	649	3	22.3
Community, Family, & Personal Services	275	1	19.0	12	3	14.9	231	1	19.3
Computer Science & Mathematics	675	3	24.2	14	4	18.9	588	3	24.3
Education	1,446	6	20.7	18	5	16.7	1,285	6	20.8
Engineering	2,706	10	25.7	12	3	15.9	2,396	11	25.7
Engineering Technology & Drafting	212	1	20.9	13	3	18.9	168	1	21.5
English & Foreign Languages	361	1	25.3	1	0	18.0	313	1	25.5
Health Administration & Assisting	495	2	18.5	25	6	16.0	409	2	18.7
Health Sciences & Technologies	4,888	19	22.2	92	24	17.1	4,348	20	22.3
Philosophy, Religion, & Theology	111	0	22.5	5	1	19.6	94	0	22.2
Repair, Production, & Construction	67	0	18.1	21	5	17.5	37	0	18.9
Sciences: Biological & Physical	2,718	10	24.7	5	1	17.2	2,446	11	24.8
Social Sciences & Law	2,111	8	22.7	11	3	17.2	1,840	8	23.0
Undecided	4,270	16	22.7	57	15	17.3	3,234	15	22.8
No Response	477	2	19.7	7	2	15.4	77	0	20.6

¹2-Year and 4-Year "N" counts do not reflect "Missing" and "Other" college plans, therefore they may not add up to the N count for All Students.

²Percent of students tested within College Plan groups (All Students, 2-Year, 4-Year).

Total Students in Report: 26,171

Table 4.2. Average ACT Composite Scores for Racial/Ethnic Groups by Post-Secondary Educational Aspirations

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Black/African American		American Indian/ Alaska Native		White		Hispanic/Latino	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	112	18.2	14	14.6	0	.	71	19.3	8	16.1
2-yr College Degree	279	17.0	34	13.6	1	12.0	198	17.9	25	16.0
Bachelors Degree	10,225	21.1	855	15.9	17	17.5	8,125	21.8	382	18.5
Graduate Study	5,712	24.3	308	19.1	8	21.1	4,600	24.7	198	22.6
Prof. Level Degree	6,079	24.8	566	19.5	9	21.6	4,204	25.4	284	22.5
Other	239	19.9	36	14.4	0	.	150	21.4	12	16.6
No Response	3,525	22.1	571	15.9	2	15.0	2,048	23.9	183	17.3

Educational Degree Aspirations	All Racial/Ethnic Groups Combined		Asian		Native Hawaiian/ Other Pacific Islander		Two or more races		Prefer not to respond/ No Response	
	N	Average	N	Average	N	Average	N	Average	N	Average
Voc-Tech	112	18.2	11	18.2	0	.	4	19.0	4	14.5
2-yr College Degree	279	17.0	7	12.9	0	.	6	16.2	8	16.3
Bachelors Degree	10,225	21.1	234	20.8	11	21.2	241	20.0	360	21.9
Graduate Study	5,712	24.3	191	25.1	3	21.0	140	24.0	264	24.8
Prof. Level Degree	6,079	24.8	443	26.5	8	21.5	190	23.6	375	26.0
Other	239	19.9	20	17.2	0	.	5	23.8	16	22.6
No Response	3,525	22.1	214	23.5	5	19.4	88	21.0	414	23.1

Total Students in Report: 26,171

Table 4.3. Students' Score Report Preferences at Time of Testing

Name	State	Number of Students			Percent of Students in College Readiness Standards Ranges						
		Total	1st Choice	2nd-6th Choice	01-12	13-15	16-19	20-23	24-27	28-32	33-36
PENN STATE-UNIVERSITY PARK CAMPUS	Pennsylvania	2,602	955	1,647	1	6	16	30	30	16	2
UNIVERSITY OF PITTSBURGH	Pennsylvania	2,228	870	1,358	0	2	9	29	35	22	2
TEMPLE UNIVERSITY	Pennsylvania	1,285	431	854	2	8	23	35	24	8	0
WEST CHESTER UNIVERSITY OF PENNSYLVANIA	Pennsylvania	902	237	665	2	9	28	38	20	4	0
DREXEL UNIVERSITY	Pennsylvania	841	209	632	1	4	12	32	31	17	2
DUQUESNE UNIVERSITY	Pennsylvania	754	251	503	0	2	10	38	36	14	1
INDIANA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	708	165	543	3	10	37	33	13	4	0
UNIVERSITY OF PENNSYLVANIA	Pennsylvania	695	270	425	0	3	6	21	27	34	9
SLIPPERY ROCK UNIVERSITY OF PENN	Pennsylvania	641	180	461	2	10	36	32	16	3	0
BLOOMSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	616	182	434	2	10	35	36	14	3	0
NCAA ELIGIBILITY CENTER	Indiana	530	294	236	3	12	24	28	22	10	1
WEST VIRGINIA UNIVERSITY	West Virginia	465	142	323	1	6	26	36	23	7	0
MILLERSVILLE UNIVERSITY OF PENNSYLVANIA	Pennsylvania	459	100	359	4	13	27	32	19	6	0
UNIVERSITY OF DELAWARE	Delaware	445	99	346	0	1	9	29	36	22	3
KUTZTOWN UNIVERSITY OF PENNSYLVANIA	Pennsylvania	443	100	343	4	11	39	30	14	3	0
EDINBORO UNIVERSITY OF PENNSYLVANIA	Pennsylvania	438	159	279	4	20	34	28	10	3	1
GANNON UNIVERSITY	Pennsylvania	419	147	272	3	13	26	28	23	7	0
SHIPPENSBURG UNIVERSITY OF PENNSYLVANIA	Pennsylvania	375	95	280	4	14	37	30	13	2	0
VILLANOVA UNIVERSITY	Pennsylvania	369	87	282	1	2	8	22	34	31	2
CALIFORNIA UNIVERSITY OF PENNSYLVANIA	Pennsylvania	360	142	218	3	18	39	26	11	3	0
ROBERT MORRIS UNIVERSITY	Pennsylvania	360	104	256	2	6	24	39	21	9	0
CLARION UNIVERSITY OF PENNSYLVANIA	Pennsylvania	319	90	229	3	15	34	33	12	2	0
CARNEGIE MELLON UNIVERSITY	Pennsylvania	312	92	220	0	2	2	14	24	43	15
LEHIGH UNIVERSITY	Pennsylvania	289	62	227	0	2	8	17	35	34	4
MERCYHURST COLLEGE	Pennsylvania	276	66	210	5	21	31	25	14	4	0
LOCK HAVEN U OF PENNSYLVANIA	Pennsylvania	267	71	196	4	13	30	31	17	5	0
YORK COLLEGE OF PENNSYLVANIA	Pennsylvania	261	88	173	3	5	29	37	18	7	0
EAST STROUDSBURG UNIVERSITY OF PENN	Pennsylvania	258	71	187	4	14	31	37	12	1	0
UNIVERSITY OF MARYLAND COLLEGE PARK	Maryland	255	57	198	0	1	6	21	37	30	4
OHIO STATE UNIVERSITY THE	Ohio	252	76	176	0	6	4	28	36	24	2
All Other Institutions		20,364	5,831	14,533	1	6	16	27	26	20	3
Total		38,788	11,723	27,065	2	6	18	29	25	17	2

Section V

Optional Writing Test Results

Beginning with the Graduating Class of 2013, all students whose scores are college reportable, both standard and extended time tests, are now included.

Also beginning with the 2013 Graduating Class data, College Readiness Benchmarks for Reading and Science were updated to reflect the most recent college coursework research.

Total Students in Report: 26,171

Table 5.1. Average ACT English and Writing Scores by Race/Ethnicity and Gender for students who took ACT Writing

	N		Average ACT Scores					
			English		Essay		English/Writing Combined	
	State	National	State	National	State	National	State	National
All Students	20,229	942,769	22.9	21.3	7.4	7.0	22.1	20.5
Black/African American	1,798	114,751	16.2	16.3	6.3	6.1	16.2	16.0
American Indian/Alaska Native	23	6,031	19.0	16.8	6.8	6.1	18.8	16.4
White	14,852	518,407	23.8	22.9	7.5	7.2	22.8	21.9
Hispanic/Latino	827	151,504	19.7	18.6	7.0	6.8	19.4	18.3
Asian	995	54,580	23.5	23.5	7.5	7.6	22.7	22.7
Native Hawaiian/Other Pac. Isl.	24	2,812	20.2	19.5	7.0	6.9	19.7	19.2
Two or more races	523	35,355	21.9	21.5	7.2	7.0	21.2	20.6
Prefer not/No Response	1,187	59,329	24.3	21.8	7.5	7.1	23.2	20.9
Males	8,607	423,104	22.8	21.0	7.2	6.7	21.8	20.1
Females	11,622	513,945	23.0	21.6	7.5	7.2	22.2	20.9
Missing	0	5,720	.	16.6	.	6.3	.	16.5

