

# Executive Summary

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THIS REPORT PROVIDES NORMATIVE INFORMATION for interpreting CLT10 scores. Two avenues are explored in this report. The first one is a norming study that develops norms for CLT10 scores based on a nationally representative sample of the CLT10 population, while the other is to provide normative information for CLT10 scores relative to two PSAT nationally representative samples, through linking the two tests. The norming study reported in Chapter 2 focuses on the nationally representative sample of the CLT10 student population; the normative information presented in Chapter 3 compares CLT10 students' performance relative to two PSAT populations.

The norming study derived a representative sample from the spring 2019 CLT10 test administration. The NCES 2016 national survey on private and homeschool students (published in the Digest of Education Statistics) was used for the population targets. Percentile rank of a given CLT10 score was created based on this national normative sample. Details on the norming study are presented in Chapter 2.

The linking study established the concordance relationship between CLT10 scores and PSAT scores using the equipercentile linking method. This mapping relates the percentile ranks of CLT10 scores to two 2018 PSAT normative samples (the PSAT nationally representative sample, and PSAT/NMSQT and PSAT10 users for the 2018). A concordance table shows how each CLT10 score is mapped onto a PSAT score or a range of PSAT scores. The percentile for a CLT10 score was obtained from the normative information of the linked PSAT score(s). This linking study is described in detail in Chapter 3.

Along the majority of the CLT10 score scale range, the percentile ranks from the national norming study are lower than those from the linking study. Such differences are as expected because the CLT10 target population is expected to perform better than the general K-12 education population, which is represented by the PSAT normative sample. Thus, for the same CLT10 score, the percentile rank is lower on the CLT10 national norming group (which uses non-district educated students as the reference group) than on the PSAT linking sample (which uses the general ed population as the reference group). Furthermore, the score distributions for the norming sample and the linking sample differ from each other. The norming and the linking studies used samples that differ in size and other demographic variables, due to the availability of the PSAT scores reported. The norming sample resembles the target CLT10 population, whereas the linking sample, limited by the availability of the PSAT scores, differed from the target CLT10 student population in terms of the key demographic variables. The linking sample also has higher performance compared with those in the norming study. Thus, the differences in target populations and sample representations and performance are consistent with the lower percentile ranks observed in the CLT10 national norm sample than in the PSAT linking samples.

The studies presented in this report are first steps in creating CLT10 national norms. Due to the availability of the sample, caution should be exercised in interpreting the norms from this report. As the CLT10 population evolves in the future, it is recommended that norm updating be conducted periodically until the sample representation of the CLT10 target population becomes stable.

<i>2019 CLT10 Scores</i>	<i>CLT10 Norming Percentiles</i>	<i>PSAT Nationally Representative Percentiles</i>	<i>2019 CLT10 Scores</i>	<i>CLT10 Norming Percentiles</i>	<i>PSAT Nationally Representative Percentiles</i>
45	4	28	83	67	86
46	4	33	84	70	87
47	6	33	85	72	88
48	6	33	86	74	89
49	7	36	87	76	89
50	8	36	88	77	90
51	8	36	89	79	91
52	9	38	90	81	91
53	11	38	91	82	91
54	12	40	92	84	91
55	13	40	93	86	92
56	15	42	94	87	93
57	16	42	95	88	93
58	19	42	96	90	94
59	19	44	97	92	95
60	20	46	98	93	95
61	21	48	99	94	96
62	23	50	100	94	96
63	25	52	101	94	97
64	27	54	102	95	97
65	28	56	103	96	97
66	31	56	104	97	98
67	34	60	105	97	98
68	36	62	106	97	98
69	38	63	107	98	98
70	40	65	108	98	99
71	42	67	109	98	99
72	44	69	110	99	99
73	46	71	111	99	99
74	47	73	112	99	99+
75	50	75	113	99	99+
76	51	76	114	99	99+
77	54	78	115	99	99+
78	56	79	116	99	99+
79	58	82	117	99	99+
80	61	82	118	99	99+
81	62	83	119	99	99+
82	65	84	120	99	99+

**2019 CLT<sup>10</sup> NATIONAL PERCENTILES**