

Percentile Rank (PR) and Normal Curve Equivalent (NCE)

Percentile Rank	NCE	NCE Range	Percentile Rank	NCE	NCE Range	Percentile Rank	NCE	NCE Range
1	1	Up to 4.0	34	41.25	41.0 - 41.5	67	59.25	59.0 - 59.5
2	6.30	4.1 - 8.5	35	41.85	41.6 - 42.1	68	59.85	59.6 - 60.1
3	10.15	8.6 - 11.7	36	42.45	42.2 - 42.7	69	60.45	60.2 - 60.7
4	12.95	11.8 - 14.1	37	43.00	42.8 - 43.2	70	61.05	60.8 - 61.3
5	15.20	14.2 - 16.2	38	43.55	43.3 - 43.8	71	61.65	61.4 - 61.9
6	17.15	16.3 - 18.0	39	44.10	43.9 - 44.3	72	62.25	62.0 - 62.5
7	18.85	18.1 - 19.6	40	44.65	44.4 - 44.9	73	62.85	62.6 - 63.1
8	20.35	19.7 - 21.0	41	45.20	45.0 - 45.4	74	63.50	63.2 - 63.8
9	21.70	21.1 - 22.3	42	45.70	45.5 - 45.9	75	64.20	63.9 - 64.5
10	22.95	22.4 - 23.5	43	46.25	46.0 - 46.5	76	64.85	64.6 - 65.1
11	24.10	23.6 - 24.6	44	46.80	46.6 - 47.0	77	65.50	65.2 - 65.8
12	25.20	24.7 - 25.7	45	47.30	47.1 - 47.5	78	66.20	65.9 - 66.5
13	26.25	25.8 - 26.7	46	47.85	47.6 - 48.1	79	66.95	66.6 - 67.3
14	27.20	26.8 - 27.6	47	48.40	48.2 - 48.6	80	67.70	67.4 - 68.0
15	28.10	27.7 - 28.5	48	48.90	48.7 - 49.1	81	68.45	68.1 - 68.8
16	29.00	28.6 - 29.4	49	49.45	49.2 - 49.7	82	69.25	68.9 - 69.6
17	29.85	29.5 - 30.2	50	50	49.8 - 50.2	83	70.05	69.7 - 70.4
18	30.65	30.3 - 31.0	51	50.50	50.3 - 50.7	84	70.90	70.5 - 71.3
19	31.45	31.1 - 31.8	52	51.00	50.8 - 51.2	85	71.80	71.4 - 72.2
20	32.25	31.9 - 32.6	53	51.55	51.3 - 51.8	86	72.70	72.3 - 73.1
21	33.00	32.7 - 33.3	54	52.10	51.9 - 52.3	87	73.65	73.2 - 74.1
22	33.70	33.4 - 34.0	55	52.60	52.4 - 52.8	88	74.70	74.2 - 75.2
23	34.40	34.1 - 34.7	56	53.15	52.9 - 53.4	89	75.80	75.3 - 76.3
24	35.10	34.8 - 35.4	57	53.70	53.5 - 53.9	90	76.95	76.4 - 77.5
25	35.75	35.5 - 36.0	58	54.20	54.0 - 54.4	91	78.20	77.6 - 78.8
26	36.40	36.1 - 36.7	59	54.75	54.5 - 55.0	92	79.55	78.9 - 80.2
27	37.05	36.8 - 37.3	60	55.30	55.1 - 55.5	93	81.00	80.3 - 81.7
28	37.70	37.4 - 38.0	61	55.85	55.6 - 56.1	94	82.65	81.8 - 83.5
29	38.35	38.1 - 38.6	62	56.40	56.2 - 56.6	95	84.55	83.6 - 85.5
30	38.95	38.7 - 39.2	63	56.95	56.7 - 57.2	96	86.80	85.6 - 88.0
31	39.55	39.3 - 39.8	64	57.55	57.3 - 57.8	97	89.55	88.1 - 91.0
32	40.15	39.9 - 40.4	65	58.10	57.9 - 58.3	98	93.25	91.1 - 95.4
33	40.70	40.5 - 40.9	66	58.65	58.4 - 58.9	99	99	95.5 & Up

Calculating a Composite Percentile Rank . With a reading PR=93 and a mathematics PR=59, first find the average of the NCEs corresponding to the two PRs, i.e., $(81.00+54.20)/2 = 67.6$. Then locate the NCE Range containing the average NCE, i.e., (67.4 - 68.0) for the Reading and Mathematics Composite Percentile Rank = 80. Use this procedure to find a composite percentile rank for any number of PRs, whether from one test (ISAT) or across different tests (ISAT, IRI, SAT, and survey).

Visit K-12 Research Idaho at <https://www.k12researchidaho.com>

Email: k12researchidaho@gmail.com