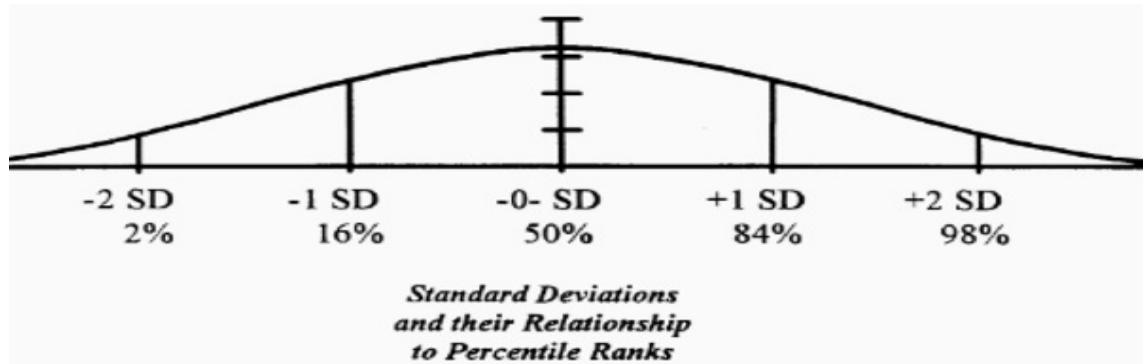


Pocket Guide to Understanding Educational and Psychological Test Scores



Standard Deviation	-2 SD	-1 SD	0 SD	+1 SD	+2 SD
Percentile Rank	2%	16%	50%	84%	98%
Standard Score (SS)	70	85	100	115	130
Scaled Score	4	7	10	13	16
Z Score	-2	-1	0	+1	+2
T Score	30	40	50	60	70
Stanine	1	3	5	7	9

Most educational test scores are reported as a Standard Score or SS. Others are reported using other schemes such as T scores, Z scores, or Scaled Scores. To better understand the relationship of such scores convert the reported score to a percentile rank. The chart above shows the relationship between various derived scores and a percentile rank. Use the chart on the reverse side of this pocket guide to obtain a more detailed comparison between these scores. Converting any test score to a percentile rank will give you the ability to see how far above or below the “average” you child is with respect to the attribute that has been measured.

- 1) **Standard Score (SS)**, is defined as a mean of 100, with a standard deviation of 15 points.
- 2) **Scaled score**, is defined as a mean of 10 standard deviation of 3 points.
- 3) **Z score**, is defined as a mean of zero and standard deviation of 1 point.
- 4) **T score**, is defined as a mean of 50 a standard deviation of 10 points.
- 5) **Stanine score**, is defined as a mean of 5 and a standard deviation of 2 points. Stanine is short for standard nine. The name comes from the fact that stanine scores range from a low of 1 to a high of 9.
- 6) **Grade-level equivalent scores (GE)** are often misunderstood; be careful when you interpret them. If a 4th grader received a 7th grade equivalent score on a 4th grade reading achievement test, the parents may believe their child is ready for 7th grade material. Actually, the score means that the child reads 4th grade material as well as the average 7th grader.
- 7) **Age equivalent scores (AE)**, reflects an individual's performance in terms of the chronological age compared to people in a norm group. If, for example, an individual's age equivalent score is 7 years 3 months, his/her performance is similar to that of the average 7 yr. 3 mo. old in the norm group.

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Legend

- PR = Percentile Rank
- SS = Standard Score (mean of 100 and a standard deviation of 15)
- T = T Score (mean of 50 and a standard deviation of 10)
- Z = Z Score (mean of 0 and a standard deviation of 1)
- Scaled = Scaled Score (mean of 10 and a standard deviation of 3)

Test Score Comparisons Within Three Standard Deviations Above and Below The Mean

PR	SS	T	Z	Scaled	PR	SS	T	Z	Scaled	PR	SS	T	Z	Scaled
99.9	145	80	3.00	19	81.6	114	59	0.90	--	12.5	83	38.5	-1.15	--
99.8	144	79.5	2.95	--	80.2	113	58.5	0.85	--	11.5	82	38	-1.20	--
99.8	144	79	2.90	--	78.8	112	58	0.80	--	10.6	81	37.5	-1.25	--
99.8	143	78.5	2.85	--	77.3	111	57.5	0.75	--	9.7	81	37	-1.30	--
99.7	142	78	2.80	--	75.8	111	57	0.70	--	8.8	80	36.5	-1.35	6
99.7	141	77.5	2.75	--	74.2	110	56.5	0.65	12	8.1	79	36	-1.40	--
99.6	141	77	2.70	--	72.6	109	56	0.60	--	7.4	78	35.5	-1.45	--
99.6	140	76.5	2.65	18	70.9	108	55.5	0.55	--	6.7	78	35	-1.50	--
99.5	139	76	2.60	--	69.2	108	55	0.50	--	6.1	77	34.5	-1.55	--
99.5	138	75.5	2.55	--	67.4	107	54.5	0.45	--	5.5	76	34	-1.60	--
99.4	138	75	2.50	--	65.5	106	54	0.40	--	5.0	75	33.5	-1.65	5
99.3	137	74.5	2.45	--	63.7	105	53.5	0.35	11	4.5	75	33	-1.70	--
99.2	136	74	2.40	--	61.8	104	53	0.30	--	4.0	74	32.5	-1.75	--
99.1	135	73.5	2.35	17	59.9	104	52.5	0.25	--	3.6	73	32	-1.80	--
98.9	135	73	2.30	--	57.9	103	52	0.20	--	3.2	72	31.5	-1.85	--
98.8	134	72.5	2.25	--	56.0	102	51.5	0.15	--	2.9	72	31	-1.90	--
98.6	133	72	2.20	--	54.0	102	51	0.10	--	2.6	71	30.5	-1.95	--
98.4	132	71.5	2.15	--	52.0	101	50.5	0.05	--	2.3	70	30	-2.00	4
98.2	132	71	2.10	--	Normative Group Mean					2.0	69	29.5	-2.05	--
98.0	131	70.5	2.05	--	50.0	100	50	0.00	10	1.8	69	29	-2.10	--
97.7	130	70	2.00	16	48.0	99	49.5	-0.05	--	1.6	68	28.5	-2.15	--
97.4	129	69.5	1.95	--	46.0	98	49	-0.10	--	1.4	67	28	-2.20	--
97.1	129	69	1.90	--	44.0	98	48.5	-0.15	--	1.2	66	27.5	-2.25	--
96.8	128	68.5	1.85	--	42.1	97	48	-0.20	--	1.1	66	27	-2.30	--
96.4	127	68	1.80	--	40.1	96	47.5	-0.25	--	0.9	65	26.5	-2.35	3
96.0	126	67.5	1.75	--	38.2	96	47	-0.30	--	0.8	64	26	-2.40	--
95.5	126	67	1.70	--	36.3	95	46.5	-0.35	9	0.7	63	25.5	-2.45	--
95.0	125	66.5	1.65	15	34.5	94	46	-0.40	--	0.6	63	25	-2.50	--
94.5	124	66	1.60	--	32.6	93	45.5	-0.45	--	0.5	62	24.5	-2.55	--
93.9	123	65.5	1.55	--	30.8	93	45	-0.50	--	0.5	61	24	-2.60	--
93.3	123	65	1.50	--	29.1	92	44.5	-0.55	--	0.4	60	23.5	-2.65	2
92.6	122	64.5	1.45	--	27.4	91	44	-0.60	--	0.4	60	23	-2.70	--
91.9	121	64	1.40	--	25.8	90	43.5	-0.65	8	0.3	59	22.5	-2.75	--
91.2	120	63.5	1.35	14	24.2	90	43	-0.70	--	0.3	58	22	-2.80	--
90.3	120	63	1.30	--	22.7	89	42.5	-0.75	--	0.2	57	21.5	-2.85	--
89.4	119	62.5	1.25	--	21.2	88	42	-0.80	--	0.2	57	21	-2.90	--
88.5	118	62	1.20	--	19.8	87	41.5	-0.85	--	0.2	56	20.5	-2.95	--
87.5	117	61.5	1.15	--	18.4	87	41	-0.90	--	0.1	55	20	-3.00	1
86.4	117	61	1.10	--	17.1	86	40.5	-0.95	--					
85.3	116	60.5	1.05	--	15.9	85	40	-1.00	7					
84.1	115	60	1.00	13	14.7	84	39.5	-1.05	--					
82.9	114	59.5	0.95	--	13.6	84	39	-1.10	--					

Use this chart to convert any educational or psychological Standard Score, T Score, Z Score or Scaled Score to a Percentile Rank, or to convert between scores for comparison. Percentile Rank is the easiest score to help you understand how far the attribute measured is above or below the mean of the normative sample. In this way you can visualize the big picture and determine and rank order your child's worst deficits and highest strengths and monitor them over time.