

## *Insight* District List Report

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An example of the District List Report is shown in the last pages of this article. The District List Report provides the *Insight* index scores for same-grade students in a school district. The name of the district is shown in the top right corner of the report. The left column of the report shows the test date, test level and grade. In the sample report, students are ordered by last name, but they may also be ordered according to their *Insight* General Ability Index, from highest scoring student to lowest scoring student.

The four index scores provided in the District List Report are the *Insight* Ability Score, the *Insight* General Ability Index, the *Insight* Thinking Index and the *Insight* Memory and Processing Index:

- The *Insight* Ability Score (IAS) is a measure of overall cognitive ability. It is based on a weighted average of the student's scores for all seven *Insight* subtests. If the student did not write all seven subtests, then the IAS cannot be calculated and "NA" will appear in the report where the student would have received a score.
- The *Insight* General Ability Index (gl) is a measure of intentional processing with a restricted range of abilities. It is based on the average of three *Insight* subtest scores: those for Crystallized Knowledge (Gc), Visual Processing (Gv) and Fluid Reasoning (Gf). The gl is sometimes used to identify students who are gifted.
- The *Insight* Thinking Index (ITI) is a measure of intentional cognitive processing when information in short-term memory cannot be processed automatically. It is based on the average of the scores for Visual Processing (Gv), Fluid Reasoning (Gf), Long-Term Memory Retrieval (Glr) and Auditory Processing (Ga).
- The *Insight* Memory and Processing Index (IMPI) is a measure of cognitive efficiency for automatic cognitive functioning involving speed and short-term memory. It represents the capacity of the cognitive system to process information automatically. It is the average of the scores for Short-Term Memory (Gsm) and Processing Speed (Gs).

For each index, three different types of scores are reported. The first is the Standard Score. A student's Standard Score is estimated by comparing the student's index score to the scores attained by a large sample of students from across Canada who were the same age when they wrote *Insight*. In the Canadian student population, about 68% of students at a particular age fall in the Standard Score range 85 to 115, so a Standard Score in this range would be considered average. In the student population, about 96% of students at a particular age fall in the Standard Score range 70 to 130. Only about 2% of the population attain Standard Scores lower than 70, and only about 2% of the population attain Standard Scores higher than 130. The value of *Insight* is in the potential to efficiently identify students who are in the bottom 2% and top 2% of the distribution for each of the four index scores.

The other two types of score that appear in the District List Report are the National Percentile Range and the National Stanine Range. A National Percentile is a ranking of the student's score relative to the scores for the national norm group. For example, when a student attains a National Percentile of 98, it means that his/her score is higher than the scores of 98% of the national norm group. A National Stanine is a reduction of the 99 possible National Percentiles to nine ordered categories, ranging from 1–9. The following table shows how National Percentiles are mapped onto National Stanines. As can be seen in the table, National Stanine 1 represents the bottom 4% of the distribution and National Stanine 9 represents the top 4% of the distribution.

Percentile	1-4	5-10	11-22	23-40	41-59	60-77	78-89	90-95	96–99
Stanine	1	2	3	4	5	6	7	8	9

A student's score, however, is always estimated with some degree of uncertainty. The magnitude of this uncertainty can be estimated and used to estimate the upper and lower bounds of an interval within which we can be 95% confident the student's "true score" actually lies. For example, when the National Percentile Range for a student's score is 1–5, then we can be 95% sure that the student's "true" National Percentile lies somewhere between 1 and 5. Similarly, the National Stanine Range 1–2 indicates that we can be 95% sure that the student's "true" National Stanine is either 1 or 2. Students whose National Stanine ranges fall on stanine 1 or stanine 9 may require further assessment.

Test Date: Oct 01, 2013

Test Level: 2

Grade: 4

*Insight* measures seven important cognitive abilities that have been associated with learning in school. It also provides screening to recommend students who may require further assessment. It is important to consider the student's day to day functioning in school in conjunction with *Insight* scores when making decisions about their strengths and needs.

For more information about this report, go to [www.canadiantestcentre.com/INSIGHT](http://www.canadiantestcentre.com/INSIGHT)

(sorted by last name)

		Insight Ability Score	Insight General Ability Index	Insight Thinking Index	Insight Memory/Processing Index
<b>ALEJANDRO JERRELL</b>	Standard Score	81	71	81	95
	National Stanine Range	1-4	1-4	1-4	2-7
	National Percentile Range	1-34	<1-27	1-37	7-79
	Exact National Percentile	10	3	10	37
<b>BROCKMAN LEONARDO</b>	Standard Score	77	77	82	89
	National Stanine Range	1-4	1-5	2-4	2-6
	National Percentile Range	<1-27	<1-42	2-37	4-61
	Exact National Percentile	6	6	12	23
<b>CELETANO DAWNE</b>	Standard Score	106	119	108	106
	National Stanine Range	4-7	5-9	4-8	4-8
	National Percentile Range	30-88	50-99+	37-93	23-93
	Exact National Percentile	66	90	70	66
<b>EMBRY ALONSO</b>	Standard Score	80	90	78	98
	National Stanine Range	1-4	2-6	1-4	3-7
	National Percentile Range	1-34	2-73	1-27	12-84
	Exact National Percentile	9	25	7	45
<b>FLEITA ROSALIND</b>	Standard Score	99	97	91	113
	National Stanine Range	3-7	2-7	2-6	4-9
	National Percentile Range	16-81	5-86	7-66	34-98
	Exact National Percentile	47	42	27	81
<b>GORIS DAPHNE</b>	Standard Score	135	135	135	111
	National Stanine Range	8-9	7-9	9	4-9
	National Percentile Range	93-99+	88-99+	97-99+	32-97
	Exact National Percentile	99	99	99	77
<b>HOEFER ROYCE</b>	Standard Score	101	107	102	94
	National Stanine Range	3-7	3-8	3-7	2-6
	National Percentile Range	21-82	19-95	21-87	7-75
	Exact National Percentile	53	68	55	34
<b>JARAMILLO ASHA</b>	Standard Score	116	120	109	111
	National Stanine Range	5-9	5-9	4-8	4-9
	National Percentile Range	58-97	55-99+	37-95	37-97
	Exact National Percentile	86	91	73	77

**simulated data**

INV = invalidated  
PM = pattern marking  
NA = not attempted