## Reading the CogAT Report for Parents

The CogAT Test measures the level and pattern of cognitive development of a student compared to age mates and grade mates. These general reasoning abilities, which start developing at birth and continue through early adulthood, are influenced by experiences gained both in and out of school.

## The CogAT measures three different cognitive abilities.

- The verbal section measures a child's ability to remember and transform sequences of English words, to understand them and to make inferences and judgments about them.
- The quantitative section measures a child's understanding of basic quantitative concepts and relationships.
- The non-verbal section measures reasoning using pictures and geometric shapes. This section reduces the impact of language on the student's score.
- The composite score is a total score for all three batteries.


## Age Scores

The test uses age norms (national) and grade norms (national) to calculate scores and compare students of the same age or grade.

The local scores compare students in the same school system.
This section of the report is dedicated to students' age scores. Students are grouped by age in one-month intervals from 4 years 11 months through 18+ years of age.


The first column in the Age Scores section, the Standard Age Score (SAS) scale is a normalized standard score scale for each battery and the Composite. The SAS has a mean of 100 and a standard deviation of 16. It permits educators to compare the rate and level of cognitive development of an individual to other students in the same age group. For example, students who have an SAS of 100 on the Verbal Battery have a rate and level of development of verbal reasoning skills that is typical of their age group. A student who has an SAS of 125 on the Verbal Battery has a faster rate and a higher level of development of verbal
reasoning skills than the typical student in the same age group. The SAS scale provides fine discriminations among high- and low-scoring students.

The second column in the Age Scores section shows the Stanine Age Score. The stanine scale is a normalized standard score scale consisting of nine broad levels designated by the numbers one through nine.



Stanine scores range from a low of 1 to a high of 9 . Stanines are groupings of percentile ranks. A higher stanine equates with a higher level of cognitive abilities development. A comparison of Stanines and Percentile Ranks are summarized in the table below:

| Stanine | Percentile Rank | Description |
| :---: | :---: | :---: |
| 9 | $96-99$ | Very High |
| 8 | $89-95$ | Above Average |
| 7 | $77-88$ | Above Average |
| 6 | $60-76$ | Average |
| 5 | $40-59$ | Average |
| 4 | $23-39$ | Average |
| 3 | $11-22$ | Below Average |
| 2 | $4-10$ | Below Average |
| 1 | $1-3$ | Very Low |

The third column in the Age Scores section shows your student's Age Percentile Rank for each section and the composite (once again the national percentile rank). A percentile rank indicates the percentage of students in the same age group whose scores fall below the score obtained by a particular student. For example, if your student obtains a percentile rank of 90 on
the verbal battery, it means that 90 percent of students in the standardized sample scored below your student. A percentile rank of 50 is considered average.


## APR Scores-Age Percentile Graph



This section also relates to your student's AGE scores. It is a graphic representation of your student's scores for each of the batteries and the composite. Scores for each section of the assessment are indicated by a diamond shape within a score band. The score band represents the confidence interval. The confidence interval is dependent upon individual error scores. Error scores represent the error of measurement for each student.

These things affect error scores:
1.The student responds inconsistently to items in the same battery (i.e.. if the student misses easy items but correctly solves difficult items)
2.If the student does well on one subtest in a section of the test but poorly on another subtest in the same battery

## Score Profile

Based on the score information in this section, a score profile is created for your student. Example ability profile is $6 \mathrm{~B}(\mathrm{~N}-)$. This is where you are directed to the Interactive profile system. You are expected to enter your child's profile score in the input section and directed to hit search.

## Raw Scores

The next section contains three sections. The Raw Scores give you the number of items on the test, number attempted, and the number correct in each test section.

| Abilities | Raw Scores |  |  | Grade Scores |  | Local Scores |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Narmber of tems | $\begin{gathered} \text { Number } \\ \text { AEt } \end{gathered}$ | Number Correct | $\begin{aligned} & \text { Grade } \\ & \text { Stanine } \end{aligned}$ | Grade Percentile Rank | $\begin{array}{\|l\|} \hline \text { Local } \\ \text { Stanine } \end{array}$ | $\begin{gathered} \text { Local } \\ \text { Percentie } \\ \text { Rank } \end{gathered}$ |
| Verbal | 62 | 62 | 40 | 5 | 55 | 4 | 33 |
| Quartitative | 52 | 52 | 34 | 6 | 68 | 5 | 44 |
| Nonvertal | 56 | 56 | 26 | 4 | 26 | 2 | 9 |
| Compocite (VQN) |  |  |  | 6 | 48 | 3 | 23 |



The Grade Scores

| Abilities | Raw Scores |  |  | Grade Scores |  | Local Scores |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number of tems | $\begin{gathered} \text { Number } \\ \text { Att } \end{gathered}$ | Number Correct | Grade Stanine | Grade Percentile Rank | $\begin{array}{\|l\|} \hline \text { Local } \\ \text { Stanine } \end{array}$ | $\begin{gathered} \text { Local } \\ \text { Percentle } \\ \text { Rank } \end{gathered}$ |
| Vertal | 62 | 62 | 40 | 5 | 55 | 4 | 33 |
| Quantitative | 52 | 52 | 34 | 6 | 68 | 5 | 44 |
| Nonvertal Compocite (VQN) | 56 | 55 | 26 | 4 6 | 26 48 | 2 | $\begin{gathered} 9 \\ 23 \end{gathered}$ |

The Grade Scores are defined as above (see Stanine and PR explanation except that they refer to the National Percentile Rank of students in the same grade level across nation.

## Local Scores

The Local Scores are defined as above (see Stanine and PR explanation above) except that they refer to the Local Stanine and Percentile Rank meaning the scores of students in the same school system.

| Abilities | Raw Scores |  |  | Grade Scores |  | Local Scores |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number | $\begin{gathered} \text { Number } \\ \text { Alt } \end{gathered}$ | Number Correct | $\begin{aligned} & \text { Grade } \\ & \text { Stanine } \end{aligned}$ | Grade Percentle Rank | $\begin{array}{\|l\|} \hline \text { Loca } \\ \text { Stanine } \end{array}$ | $\begin{gathered} \text { Local } \\ \text { Percentlie } \\ \text { Rank } \end{gathered}$ |
| Verbal | 62 | 62 | 40 | 5 | 55 | 4 | 33 |
| Quartitative | 52 | 52 | 34 | 6 | 68 | 5 | 44 |
| Nonvertal | 56 | 56 | 26 | 4 | 26 48 | 2 | $9$ |

## Composite Score

The number indicating the Composite Score is a percentile for all three sections. This number combines all three scores and indicates where your child stands by comparison to other students who took the test. Thus, a composite percentile score of 98 indicates that, overall, your child did better on all three sections combined than 98 percent of other students in her age group.

## Understanding Score Profiles

Since CogAT's inception, the authors have encouraged teachers to focus on the student's scores on the three separate CogAT batteries rather than on the student's Composite score. The scores on the three batteries make up a student's score profile.

CogAT score profiles identify both the level of the student's scores and the pattern of scores across the batteries. In the short paragraph at the bottom of the page, you'll see an "Ability Profile." You can use this profile code at the website www.cogat.com to receive more information about the CogAT test and your daughter's or son's scores.

The Level of Scores is represented by the student's middle age stanine across the three sections of the CogAT. For example, if a student scored in the $8^{\text {th }}$ stanine for verbal, the $3^{\text {rd }}$ stanine for quantitative, and the $5^{\text {th }}$ stanine for nonverbal, the middle age stanine used in the score profile would be $5^{\text {th }}$.

The Pattern of Score is indicated one of the following ways:
A Profile: The student's verbal, quantitative, and nonverbal scores are roughly at the sAme level.

B Profile: One of the three scores is either aBove or Below the other two. The student's profile will either show a relative strength OR a relative weakness.

C Profile: There is one score above and one score below creating a Contrast. This student's profile will show both relative strength and a relative weakness.

E Profile: If a B or C profile represents a point difference in the SAS score of 12 points or more, it is considered Extreme. An E profile calls attention to the scores difference.

## Narrative

To the right of your child's report you will see a narrative description of his or her results.

## General Info

Generally, percentiles are a more descriptive way of understanding how your child did on the exam because they show how he ranked against his entire group of peers. Stanines are more confusing but correspond directly to the percentile score.

It is important to understand that the CogAT, like many cognitive tests administered to children, is an imperfect assessment measure that can vary greatly depending on a variety of external factors. Thus, while these scores can be important, they should not be taken as the sole measurement of your child's abilities and skills.

