



RAPID AUTOMATISED NAMING - OBJECTS Norms Tables

Longitudinal Norms for British English Children

These norms are based on repeated testing of a cohort of children at five time points between the middle of Reception Year and the middle of Year 2.

Table 1

Descriptive statistics for Rapid Automatised Naming -- Objects (Average Time Taken, Across Two Trials, to Name 40 Depicted Objects) over Five Time Points from Mid-Reception Year to Mid-Year 2.

| | n | Mean age months | Mean Time seconds | SD | Min - Max | Reliability Test-retest |
|--------------------|-----|-----------------|-------------------|-------|-----------|-------------------------|
| Mid-Reception Year | 188 | 60.27 | 57.69 | 16.47 | 31 - 105 | .84 |
| End-Reception Year | 185 | 63.27 | 54.42 | 16.14 | 30 - 119 | .85 |
| Mid-Year 1 | 179 | 68.16 | 47.17 | 12.50 | 26 - 105 | .88 |
| End-Year 1 | 167 | 75.02 | 44.11 | 10.64 | 25 - 84 | .82 |
| Mid-Year 2 | 172 | 79.97 | 40.82 | 9.43 | 25-72 | .86 |

Table 2

Percentile Ranks Corresponding to the Average Time taken to Name 40 Depicted Items (Over Two Trials) at Each Time Point.

| | 5 th | 10 th | 25 th | 50 th | 75 th | 90 th | 95 th | 99 th |
|--------------------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Mid-Reception Year | 95 | 83 | 66 | 54 | 48 | 39 | 37 | 32 |
| End-Reception Year | 88 | 74 | 63 | 51 | 44 | 37 | 35 | 30 |
| Mid-Year 1 | 70 | 63 | 53 | 45 | 37 | 34 | 33 | 27 |
| End-Year 1 | 65 | 59 | 50 | 42 | 36 | 32 | 30 | 26 |
| Mid-Year 2 | 61 | 54 | 45 | 39 | 34 | 31 | 29 | 26 |

Note: Percentiles are derived from observed sample estimations. The 50th percentile is the median score.

Table 3*

Descriptive statistics for Rapid Automatised Naming -- Objects Errors (average of errors per trial) over Five Time Points from Mid-Reception Year to Mid-Year 2.

| | n | Mean age months | Mean errors/trial | SD | Min - Max |
|--------------------|----------|----------------------------|------------------------------|-----------|------------------|
| Mid-Reception Year | 188 | 60.27 | 0.82 | 1.72 | 0-10 |
| End-Reception Year | 183 | 63.27 | 0.76 | 1.68 | 0-10 |
| Mid-Year 1 | 179 | 68.16 | 0.65 | 1.34 | 0-8 |
| End-Year 1 | 167 | 75.02 | 0.36 | 0.96 | 0-6 |
| Mid-Year 2 | 172 | 79.97 | 0.21 | 0.52 | 0-2.5 |

* Please note, we do not supply percentiles or standardized scores for errors as the error rates are very low.

Table 5

Standard Score Conversion Table with Confidence Intervals (bottom of Table) for Rapid Automatised Naming -- Objects.

The standard scores have a mean of 100, and a standard deviation of 15. Standard scores falling between 85 and 115 points are within the average range. Find the child's raw score (average time taken, across two trials, to name 40 depicted objects) in the relevant column and read across to the left-most column to obtain the corresponding standard score.

| Standard Score Conversion Table for Rapid Automatised Naming - Objects | | | | | |
|---|---------------|---------------|------------|------------|------------|
| Standard Score | Mid-Reception | End-Reception | Mid-Year 1 | End-Year 1 | Mid-Year 2 |
| 65 | ≥ 105 | ≥ 114 | ≥ 96 | ≥ 80 | ≥ 70 |
| 66 | | 113-106 | 95-80 | 79-8 | |
| 67 | 104 | 105 | 81 | 77-6 | 69 |
| 68 | 103 | 104 | | 75 | 68 |
| 69 | 102 | 103 | 80 | 74-2 | 67 |
| 70 | 101 | 102-99 | 79 | 71 | 66 |
| 71 | 100 | 98 | 78 | 70 | 65 |
| 72 | 99 | 97-95 | 77-6 | 69 | 64 |
| 73 | 98 | 94-92 | 75-3 | 68 | |
| 74 | 97 | 91-90 | 72-1 | 67-6 | 63 |
| 75 | 96 | 89-7 | 70 | 65 | 62 |
| 76 | 94 | 86-4 | 69 | 64 | 61-0 |
| 77 | 89 | 82 | 68 | 63-2 | 59 |
| 78 | 87 | 81-79 | 67 | 61 | 58-7 |
| 79 | 85 | 78-7 | 66-5 | | 56 |
| 80 | 84 | 76 | 64 | 60 | 55 |
| 81 | 83 | 75-4 | 63 | 59 | 54 |
| 82 | 81-2 | 73-2 | 62 | 58-6 | 53 |
| 83 | 78 | 71 | 61 | 55 | 52 |
| 84 | 77 | 70 | 60 | 54 | 51 |
| 85 | 75-6 | 69-8 | 59 | | 50 |
| 86 | 74 | 67 | 58 | 53 | 49-8 |
| 87 | 71-3 | 66-5 | 57 | 52 | 47 |
| 88 | 68-70 | | 56-5 | 51 | 46 |
| 89 | 67 | 64 | 54 | | |
| 90 | 66 | 63 | 53 | 50 | 45 |
| 91 | 64-5 | 62 | | 49 | |

| Standard Score Conversion Table for Rapid Automatised Naming – Objects (cont'd) | | | | | |
|--|---------------|---------------|------------|------------|------------|
| Standard Score | Mid-Reception | End-Reception | Mid-Year 1 | End-Year 1 | Mid-Year 2 |
| 92 | 62-3 | 61 | | | 44 |
| 93 | 61 | 60-59 | 52 | 48 | |
| 94 | 60 | 58 | 51 | | |
| 95 | 59 | 57 | 50 | 47 | 43 |
| 96 | 58 | 56-5 | 49 | 46 | |
| 97 | 57 | 54 | 48 | 45 | 42 |
| 98 | 56 | 53 | 47 | 44 | 41 |
| 99 | 54-5 | 52 | 46 | 43 | 40 |
| 100 | 53 | 51 | 45 | | |
| 101 | | 50 | | 42 | 39 |
| 102 | 52 | 49 | 44 | | |
| 103 | | 48 | 43 | | 38 |
| 104 | 51 | 47 | 42 | 41 | |
| 105 | | | | 40 | 37 |
| 106 | 50 | 46 | 41 | 39 | |
| 107 | 49 | | 40 | | 36 |
| 108 | | 45 | 39 | | 35 |
| 109 | 48 | | 38 | 38 | |
| 110 | | 44 | | 37 | |
| 111 | 47 | 43 | | 36 | 34 |
| 112 | 46 | 42 | 37 | | |
| 113 | 45 | | | 35 | 33 |
| 114 | 44 | 41 | | | |
| 115 | 43 | 40 | 36 | | |
| 116 | 42 | | | 34 | |
| 117 | 41 | 39 | | | 32 |
| 118 | | 38 | 35 | | |
| 119 | 40 | | | 33 | |
| 120 | 39 | | | | 31 |
| 121 | 38 | 37 | | | |
| 122 | | 36 | 34 | 32 | 30 |
| 123 | | | | | |
| 124 | 37 | 35 | | 31 | |

| Standard Score Conversion Table for Rapid Automatised Naming – Objects (cont'd) | | | | | |
|---|----------------------|----------------------|-------------------|-------------------|-------------------|
| Standard Score | Mid-Reception | End-Reception | Mid-Year 1 | End-Year 1 | Mid-Year 2 |
| 125 | | | 33 | 30 | |
| 126 | 36 | 34 | | | 29 |
| 127 | | | | | |
| 128 | | | 32 | | |
| 129 | | 33 | | | |
| 130 | 35 | | | 29 | |
| 131 | | 32 | 31 | | |
| 132 | | | | | 28 |
| 133 | 34 | 31 | 30 | | |
| 134 | | | | | |
| 135 | ≤ 33 | ≤ 30 | ≤ 27 | ≤ 27 | ≤ 26 |
| Confidence Intervals (SEMs) for the standard scores. Add/subtract the CI value to/from the standard score value in the left-most column to obtain the confidence range. | | | | | |
| CI 68% +/- | 6 | 6 | 5 | 7 | 6 |
| CI 95% +/- | 12 | 11 | 10 | 13 | 11 |