## Appendix B

*Descriptive statistics of the home math environment questionnaire*

| Scale and items                                                                 | n   | M    | Min | Max | SD  |
|--------------------------------------------------------------------------------|-----|------|-----|-----|-----|
| **Home math environment – activities**                                         |     |      |     |     |     |
| Playing games that require counting or elementary computations (e.g., Snakes and ladders; Jungle game) | 348 | 1.93 | 0.00| 4.00| 0.95|
| Reading picture books that include numbers, counting or elementary computations (e.g., Count with Maisy) | 349 | 1.84 | 0.00| 4.00| 1.10|
| Singing counting rhymes or counting songs (e.g., 5 little monkeys)             | 351 | 1.65 | 0.00| 4.00| 1.07|
| Attending to written numerals during daily activities (e.g., cooking)          | 349 | 2.13 | 0.00| 4.00| 1.13|
| Counting or elementary calculations during daily activities (e.g., counting the number of apples during cooking) | 349 | 2.57 | 0.00| 4.00| 1.00|
| Creating patterns with concrete materials (e.g., creating a necklace with alternating red and blue beads) | 347 | 1.17 | 0.00| 4.00| 0.97|
| Playing games that include patterns (e.g., Team umizoomi)                      | 346 | 1.36 | 0.00| 4.00| 1.05|
| **Home math environment – expectations**                                       |     |      |     |     |     |
| Reciting the number sequence up to 10 (e.g., 1, 2, 3, 4, ...)                  | 344 | 2.68 | 1.00| 3.00| 0.53|
| Reciting the number sequence over 10 (e.g., 10, 11, 12, 13, ...)               | 345 | 2.19 | 0.00| 3.00| 0.74|
| Counting up to 10 objects (e.g., counting 3 candies)                           | 345 | 2.57 | 1.00| 3.00| 0.57|
| Activity                                                                 | Mean | Median | SD   | SE   | 95% CI Lower | 95% CI Upper |
|-------------------------------------------------------------------------|------|--------|------|------|-------------|-------------|
| Counting more than 10 objects (e.g., counting 12 cubes)                | 346  | 2.12   | 0.00 | 3.00 | 0.00        | 0.76        |
| Reading written number symbols (e.g., 3)                                | 345  | 2.11   | 0.00 | 3.00 | 0.00        | 0.78        |
| Writing number symbols (e.g., 2)                                       | 347  | 1.67   | 0.00 | 3.00 | 0.00        | 0.85        |
| Solving sums up to 5 (e.g., 2 + 2)                                     | 342  | 1.52   | 0.00 | 3.00 | 0.00        | 0.92        |
| Solving sums up to 10 (e.g., 5 + 4)                                    | 343  | 1.23   | 0.00 | 3.00 | 0.00        | 0.90        |
| Extending a pattern (e.g., red blue red blue)                          | 345  | 2.25   | 0.00 | 3.00 | 0.00        | 0.62        |
| Naming or describing a pattern                                          | 342  | 1.94   | 0.00 | 3.00 | 0.00        | 0.78        |
| **Home math environment – attitudes**                                   |      |        |      |      |             |             |
| I like mathematics                                                      | 347  | 2.71   | 0.00 | 4.00 | 1.00        | 1.08        |
| Mathematics is important                                               | 346  | 3.47   | 0.00 | 4.00 | 0.00        | 0.67        |
| I am competent in mathematics                                           | 346  | 2.58   | 0.00 | 4.00 | 1.00        | 1.02        |

a Rated on a 0-4 rating scale, with 0 = never, 4 = every day; b Rated on a 0-3 rating scale, with 0 = not at all important, 3 = very important; c Rated on a 0-4 rating scale, with 0 = completely disagree, 4 = completely agree.