Steps for Hand-Scoring

Battelle Developmental Inventory – 2nd Edition (BDI-2)

1. Calculate child’s correct chronological age.

2. Calculate the correct **Raw Score** for each BDI-2 subdomain.
   a. Give 2 points for each unadministered item below the basal.
   b. Sum the points earned between the basal item and the ceiling items.
   c. Do not score any items that follow the ceiling item.
   d. Total the points from Steps 2a. and 2b.

   **Example:** For a sample subdomain, a child is administered the BDI-2. The basal is established as Item 10 in the subdomain and the ceiling is reached with the completion of Item 19. Points for the items are as follows:

<table>
<thead>
<tr>
<th>Item</th>
<th>10</th>
<th>11</th>
<th>12</th>
<th>13</th>
<th>14</th>
<th>15</th>
<th>16</th>
<th>17</th>
<th>18</th>
<th>19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Points</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

   Items 1 through 9 each receive 2 points because they precede the basal item. 
   \(9 \times 2 = 18\).

   On items administered there were four 2-point responses and two 1-point responses for a sum of 10 points. 
   \(4 \times 2 = 8\) + \(2 \times 1 = 2\) = 10

   The raw score for this subdomain is 28. \(18 + 10 = 28\)

   e. Complete this process for each BDI-2 subdomain.

3. Record the subdomain Raw Score totals on the front page of the record form in the column labeled **Subdomain Raw Score Totals** for all of the subdomains.

4. To determine the **Age Equivalent** values for the child’s performance on the BDI-2 subdomains:
   a. Locate *Appendix A. Age Equivalent (by year-month and months only) Corresponding to the Subdomain Raw Score Total* in Examiner’s Manual.
   b. Identify the column that represents the appropriate subdomain and move down the column until you find the appropriate raw score value.
   c. In the same row at the far left or right of the table, is the Age Equivalent value.
d. Record this value on the front page of the record form in the column labeled **Age Equivalent**, which is located to the left of the raw score column.

5. To determine the **Subdomain Percentile Rank and Scaled Score** values for the child’s performance on the BDI-2 subdomains:

   b. Select the appropriate table in Appendix B that reflects the child’s chronological age. There are 48 tables in this Appendix.
   c. Identify the column that represents the appropriate subdomain and move down the column until you find the appropriate raw score value.
   d. In the same row at the far left or right of the table, are the Percentile Rank and Scaled Score values.
   e. Record these values on the front page of the record form in the columns labeled **Subdomain Percentile Rank** and **Subdomain Scaled Score**, which are located to the right of the raw score column.

6. Next, add the appropriate subdomain scaled scores to determine the **Sum of Subdomain Scaled Scores** values.

   a. Follow the path as directed using of the arrow, plus and equal signs printed on the record form.
   b. Record the **Sum of Subdomain Scaled Scores** in the appropriate box on both the Summary Profile and the Conversion Table for Sum of Scaled Scores.

**NOTE:** For children less than age 2 years or ages 6-7 years, there may only be one subdomain value for selected domains. In this case the value that represents the sum of the subdomain scaled score will be the same as the subdomain scaled score.

7. To determine the **BDI-2 Total Sum of Scaled Scores** value for the child’s performance on the BDI-2:

   a. Add the 5 totaled values calculated in Step 6.
   b. Record this value in the appropriate box on both the Summary Profile and the Conversion Table for Sum of Scaled Scores.

**NOTE:** The BDI-2 Total score can only be calculated if all of the age appropriate subdomains for the child have been administered.
8. To determine the five Domain Developmental Quotient Score for the BDI-2 for the child’s performance on the BDI-2:
   b. Select the appropriate table in Appendix C that reflects the child’s chronological age range. Table C.1 is for ages 0-23 months, Table C.3 is for ages 24-71 months and Table C.5 is for ages 72-95 months.
   c. Identify the column that represents the appropriate Domain and its respective Sum of Scaled Scores. Move down the column until you find the appropriate scaled score value that was calculated in Step 6.
   d. In the same row at the far left of the table, is the Developmental Quotient (DQ) score for the Domain.
   e. In the same row at the far right of the table, is the Percentile Rank value for the Developmental Quotient (DQ) score derived in Step 8d.
   f. In the same row, immediately to the right of the Sum of Scaled Scores, is the 95% Confidence Interval associated with the Domain DQ score derived in Step 8d.
   g. Read and record all three of these values on the front page of the record form in the columns labeled Developmental Quotient, Percentile Rank, and Confidence Interval, respectively. These columns can be found at the far right of the first page of the BDI-2 record form.
   h. Repeat Steps 8c. through 8g. for each of the five BDI-2 Domains.

9. To determine the BDI-2 Total Developmental Quotient Score for the child’s performance:
   b. Select the appropriate table in Appendix C that reflects the child’s chronological age range. Table C.2 is for ages 0-23 months, Table C.4 is for ages 24-71 months and Table C.6 is for ages 72-95 months.
   c. Identify the Sum of Scaled Scores column. Move down the column until you find the appropriate scaled score value that was calculated in Step 7.
   d. In the same row at the far left of the table, is the Developmental Quotient (DQ) score for the Domain.
   e. In the same row at the far right of the table, is the Percentile Rank value for the Developmental Quotient (DQ) score derived in Step 9d.
f. In the same row immediately to the right of the Sum of Scaled Scores, is the 90% Confidence Interval associated with the Domain DQ score derived in Step 9d. The next column to the right contains the 95% Confidence Interval. Choose which confidence interval you wish to report.

g. Record all three of these values on the front page of the record form in the columns labeled Developmental Quotient, Percentile Rank, and Confidence Interval, respectively. These columns are found at the far right of the first page of the BDI-2 record form.

10. To create the Subdomain Profile – Scaled Scores:
   a. Record the subdomain scaled scores in the appropriate boxes near the top of the graph located in the lower left corner of the first page of the record form.
   b. Next, mark an ‘X’ in the row that corresponds to the value of the scaled score for the specific subdomain. Do not make any marks in the columns that do not have a scaled score value.
   c. Repeat this process for each of the subdomain scaled scores.
   d. Connect the ‘X’ marks with straight-line segments to depict the high and low scores for the subdomains. Do not connect the line segments across columns where no scaled score is available.

11. To create the Developmental Quotient Composite Profile:
   a. Record the Developmental Quotient scores in the appropriate boxes near the top of the graph located in the lower right corner of the first page of the record form.
   b. Next, mark an ‘X’ in the row that corresponds to the value of the scaled score for the specific domain. Do not make any marks in the columns that do not have a scaled score value.
   c. Repeat this process for each of the five domain and the BDI-2 Total DQ scores.
   d. Connect the ‘X’ marks with straight-line segments to depict the high and low scores for the domains. Do not connect the line segments across columns where no DQ score is available.