

General Coding Instructions for Bayley

These instructions are applicable to all times the test is given (6-24 months) to children in project care:

The Bayley MDI and PDI developmental indices are generated from the Raw Score. The score is calculated by the tester and checked by the data management room. Specific scoring instructions are found in the Bayley Testing Manual. (All items below the Basal item which is determined by test administrator are considered passed. Passed items are coded "1" failed, "2". All omitted items or those coded other are coded as fail, "2"). The total raw score is the number of passed items. To determine a developmental index; 1) find the appropriate age column 2) with the age column find the raw score that has been calculated and match that with the index which appears on the left hand side of each page.

(The child's age which has been determined by the tester should also be checked!) The child is 5 months and 25 days look in column 6 which includes 5m 24d through 6m 15 day. Follow the column vertically until the raw score of 77 is found. Then looking to the left are bold faced numbers which represent PDI and MDI's. For the example infant the MDI is 110.

If a child is premature then the difference of the 37 weeks and the actual gestational age is subtracted from the chronologic age of the child. Thus, a child who had an estimated gestation at age of 32 weeks is 5 weeks premature ($37 - 32 = 5$). At a chronologic age of 6 months this child's MDI or PDI would be calculated from 6m - 5 week or 4m 3 week (4 month 21 day) column. (This is a new procedure which applies only for CARE).

The mental age of a child is calculated in a similar fashion. The mental age is coded (XX.X) where the raw mental score corresponds with a developmental index of 100. The mental age of the child in the example is (07.0) 7 months (6m 15d through 7m 15d). The raw score 77 at 7 months corresponds with a developmental index (MDI) of 100. At 7 months a Raw score of 77 corresponds with an MDI of 94 which is 6 steps above 100 ($110 - 100$) since 6 is close to 100 the child's mental age is 7 months (07.0).

The items from the Bayley Infant Behavior Record can be coded directly from the instrument. The answer coded for each question is the number of circled. eg. If "8" is selected for question 5 then an 8 is coded in the appropriate column, in this case column 14. For question 23 pacifier - if the child has no pacifier then 1 should be coded. If the child has a pacifier but it is not with him/her then code 1 also.

Bayley Age Placements are calculated from the test protocols. The Mental Scale age placement is calculated from the Mental Scale Record Form (yellow) and the Psychomotor Scale age placement is calculated from the Motor Scale Record Form (blue). To generate the age placement simply find the Raw score, for example 78. Then open the test booklet and find 78 in the item number column of the far left hand side of the page. In the next box (moving horizontally) to the right the upper number is the age placement. This number is in the form of X.X. From the example a raw score of 78 corresponds to an age placement of 6.5. This number is found in a column labeled "age placement

and range (months)". This procedure is performed for both the mental and psychomotor scale. Once the age placement is calculated it is coded in the following format, XX.X. The example would be coded "06.5". (Code the decimal).

The chronologic age is calculated as indicated on the instructions on the following page. "To calculate precise age at testing situation or Growth Measurement. Follow instructions through step B. At this point, 57 month and 22 days, divide 22 by 30 to get a fraction expressed as a decimal. $22/30 = .73$. Thus, the child's age is $57 + .73 = 57.73$. This rounds to 57.7 and is coded in the same manner as the age placements.